

1923

Yamacca

Crota Rica

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1923. 1. Pleasant Hill, Blue Mts.,  
Jamaica. 3700 to 4400 feet.

July 19, 1923. (R.) All taken in  
juncus grass, low succulent  
herbage and bush along trail  
toward Cinchona through riviera,  
coffee and bananae. *Paratettix*  
<sup>surge</sup> dead broken leaves in ground.

juv. *Schistocerca* in more succulent  
veg. juv. *Aspilota* <sup>yellow</sup> sweeping  
from same. Immat. <sup>red</sup> swept.

Urob. 90

6 thrown away

Other insects. 37

1923. 2. Bixomin St. Helen Gap +  
Morris Gap, Blue Mts., Jamaica.  
4780-4980 feet. July 19, 1923. (R.)  
no *Orthoptera*.

Orthopt. Other ins. 37 + 5 = 42.

1923. 3. Morris Gap, Blue Mts.,  
Jamaica. 4980 feet. July 19, 1923.  
(R.) In dead leaves on forest floor  
*Choriphyllum* (?). From epiphytic  
bromeliads, *Cairbatta* *reticulosa*  
<sup>imm.</sup> *Aspilota* <sup>comparita</sup>  
+ *Neoblattella* ? sp. ? (2 ♀) - juv.  
Blattids - *Choristina* *bratini* from



grassy banks of cut.

$$11 + 10 = 21$$

$$\text{Other insects } 15 + 37 = 52$$

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1923.4 Betw. Low edge of forest  
- St. Helena Gap, Blue Mts., Jan.  
4400 - 4700 feet. VII.20.1923. (R.)

1 juv. *Archives beatus* from soaker  
forest undergrowth.

$$1 + 21 = 22$$

$$\text{Other insects } 7 + 52 = 59$$

All *beatus* exc. butterfly.

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1923.5 Same as 1923.1 but  
elevation only to 3800 feet. VII.21.1923  
In grass and banana litter (R.)  
dead leaves and dead & live  
blossom clusters.

*Proctos* 1 ♀ under dead banana trunk.  
*Carthatta* rel. 2 from <sup>Ado. & juv.</sup> blossom. *Neob.*  
*detersa* Ado. & juv. from ditto.

*Demnapt.* relicta. Under stones & about  
bases of bananas in ground  
litter. Ado. & juv. *Stegm* juv. in  
muddy patches. *Ich. incripta* juv.  
in ditto. *Conceph.* juv. ditto.



Microcut. juv. ditto. richardsoni  
(?) from bases of banana leaves  
only. Jamaicanus juvs only,  
numerous in bases of banana  
leaves & in banana blossoms.  
Apparently very variable in  
coloration. Gryllus ad. & juv. from  
ground litter among bananas.  
Crochalis numerous in banana  
blossoms, very active.

$$67 + 22 = 89$$

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$$\text{Other insects } 9 + 59 = 68$$

1923. 6 Same as 1923. 3 but July  
21, 1923. (R.)

Neobl. grossbecki 2 ♂ 2 ♀, 1 juv.  
in dead bases of tree fern fronds  
and in shreddy bark of tree with  
reddish bark of that type. Cryptop-  
tilum ad. ♂ & juv. under bark as  
above. Beetles in bromeliads.

$$7 + 89 = 96$$

$$\text{Other insects } 8 + 68 = 76$$

1923.7 Same as 23.4 but VII. 22. 1923  
(R.) Beating along border of forest,  
dead wood work in forest and  
scratching in dead leaves.

Caril. punctulata 1 sp. from wild  
ginger head. Woll. new sp. from  
dead wood in forest. Woll. detrita  
from and from bromeliad from under  
Andria sp.

dead wood. Acis. morpho from  
181 ♀ juv. from hollow in log largely  
occupied by abandoned termites  
nest. Ternyle-like phasm. beaten  
from grass and hachen-like plant  
on <sup>slope</sup> face of trail. juv. phasmids  
similarly beaten. Exprosa sp.  
2 juvs. from trail border, occupying.

Cryptoptilum 1 from bromeliad  
1 from under dead wood. 1 juv.

Pseudophyllid from sweepings.

1 juv. Archaroid from head of  
wild ginger.

$$19 + 96 = 115$$

$$\text{both other notes } 43 + 76 = 119$$



1923.8 Vicinity of Cinchona, Blue  
Mts., Peru. Elev. 4900 feet. VII. 23. 1923.

(R.) No Orthoptera.

Insects other than Orth.  $14 + 119 = 133$

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1923.9 Same as 1923.1. VII. 23. 1923.  
(R.) Beating and sweeping.

Phasmod <sup>1814</sup> from brush along trail.  
Stagmomantis <sup>(juv)</sup> in grass & brush

juv. Dittigra, in overhanging  
vegetation along trail. juv. Schist.  
insect, in grass.  
 $15 + 115 = 130$

Other insects  $5 + 133 = 138$

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1923.10 Same as 1923.4 VII. 23. 1923

(R.) Pichnocheilus in bromeliad.

juv. Jamaicana in ditto. New  
Blattid ditto. Apithes-like juv.  
in blossom of wild ginger. Other  
juv. pygid in bromeliad.

$6 + 130 = 136$

Other insects  $15 + 138 = 153$

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1923.11 Same as 23.1 but  
elev. 3700 - 3750 feet. VII. 24. 1923.

(R.) Beating weedy fields  
and vine tangles on cut bank



along trail. juv. Hagmon  
in weeds. Large Bacteria like  
for <sup>super</sup> from one varieg. ditto  
juv. Microcephalus Microcephalus  
from weeds. juv. Schist. inscripta  
ditto. juv. Psittaculoid from  
one varieg. beatus.

- Pseudomyrmex pace VII. 23. 1923  
<sup>in room</sup>  
~~at light~~ at night.

~~1923.12~~  $16 + 136 = 152$

Others.  $4 + 153 = 157$

1923.12 Same as 1923.5. VII. 24,  
1923 (R.) in banana blossoms,  
leaf litter and bases of leaves  
of same only.

Termit. relicta 1 at base of banana  
tree in litter. Caril. reticulosa  
in blossoms only. Moth. detrita  
ditto. Cryptophilum in blossoms  
& under leaf sheaths. Orchardia  
in fresher portions of blossoms  
almost entirely, always in  
blossoms. juv. Jamaicana  
in blossoms only. <sup>no adults</sup> Richemondia  
ids. chiefly in under leaf

theater, but occasionally in  
stream. Hornoseph. in  
leaf litter.

$$51 + 152 = 203$$

$$\text{Other in } 1 + 162 = 163$$

1923.13 Same as 23.1 Elev. 3660 feet.  
VII. 24. 1923. (R.) Under house.

Aglaothorax adults + juv. under bark  
of shade trees. Jamaicana,  
Pichneochorus - Procharis ditto.

Aspiloid juv. from vine tangles  
along trail.

$$18 + 203 = 221$$

1923.14 Same as 1923.4 but date  
VII. 24. 1923. (R.) All from bromeliads  
near jct. of Pleasant Hill trail +  
Clydesdale - Cinchona trail, unless  
otherwise indicated.

Neobl. grossbecki, both sexes.

" detrita. Both sexes.

new species 18.14. Agria n.sp.

18.14. Procharis pyllodes

Adults + juv. Chorizonta sp.

♀ from mechalyra tree,



swept.

$$27 + 221 = 248$$

$$\text{Other ins. } 24 + 163 = 187$$

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1923.15 Same as 23.4 but VII.25.1923  
(R.). In lower section of forest  
entirely. Sweeping, bark from  
trees, tree fern examination,  
dead logs, etc.

*Aglaothorax* ad. juv. from hollowed  
bases of dead tree fern fronds &  
under bark. *Cryptoptilus* from  
bark & dead wood. *Oreochares*  
juv. bark & dead wood. *Acantthis*  
type, from under bark of dead  
log.

$$11 + 248 = 259$$

$$\text{Other ins. } 8 + 187 = 195$$

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1923.16 Same as 1923.5 VII.25.1923  
(R.) In banana blossoms,  
litter & roadside vines &  
bush.

*Neobl. diffusa* in banana

blossoms *Carib.* ~~id.~~ ditto.

*Conoceph.* in weeds. *Amimorpha*  
jam. Put house.



juv. Scutellera in rice tangle  
 along trail. Camelid juv.  
 in trail side rice tangle -  
 not persistently for adults  
 without success. Richmond  
 in banana blossoms <sup>under</sup> banana  
 leaf nodes. Camelid all  
 juv. in blossoms of bananas.  
Arachnis in banana blossoms.

$$32 + 209 = 291$$

$$\text{Other ins. } 5 + 195 = 200$$


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1923, 17 West slope of Sir John Peter  
 Grant Peak, Blue Mts., Jamaica.  
 Elev. 5700 feet. VII. 26, 1923. (R.)  
 In dense ridge type of forest. Heavy  
 undergrowth, mosses everywhere  
 and limited number of epiphytic  
 bromeliads. Dermopt. Pelica under  
 bark. Neoblatt. grossbecki from  
 bromeliad. Juv. N. detrita (?) from  
 ditto. Juv. Cariblatta (?) bilineate  
 insect, from <sup>upper</sup> bark only.

$$9 + 291 = 300$$

$$\text{Other insects } 1 + 200 = 201$$

1923.18 New Haven Jap, Blue  
Mts., Jan. Elev. 5600 feet. VII. 26. 1923  
(R.) In bromeliads and under  
bark. Neob. detrita (?) juv.  
wood in bromeliads. juv. Gairblatta?  
vilinate under. from under  
bark. Orocharis, apparently  
diff. from sp. found in bananae.  
from bromeliads.

$$5 + 300 = 305$$

$$\text{Other ins. } 2 + 201 = 203$$


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1923.19 Same as 23.4 but  
VII. 27. 1923. (R.)

Chloritid <sup>juv.</sup> tratus from trail side  
tangle. Cryptoptilum from  
under bark in forest. Uliga-  
canthopus (?) ditto; particularly  
<sup>reddish</sup> shreddy, bark of one tree.

$$0 + 305 = 311$$

$$\text{Other ins. } 9 + 203 = 212$$


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1923.20 Pleasant Hill House,  
Blue Mts., Jan. Elev.  
3665 feet to 3800 feet. III.  
27. 1923 (R.)

Ullia 1 ad. <sup>juv.</sup> script from  
trail-side vine tangles.



Butterflies, <sup>incl. nippa & saccharine</sup> up in coffee, & phlegia  
about flowers at dusk - also  
resperid. other moths &  
blackish non-resperid butterfly  
at light at night.

Perip. austral. in house at night.  
Jamaicana juv ditto (!)

$$311 + 4 = 315$$

$$\text{Other ins. } 20 + 212 = 232$$

1923. 21. Same as <sup>1923. 11</sup> 1923. 5 but VII. 28. 1923

(R.) Old field, trailside tangles

+ vines, ~~banana blossoms~~

~~dead leaf bases. Also under~~

~~stones~~ Stagmo. juv. in old

fields. Choristia ad. + juv.  
in old field + roadside weeds.

Schistocerca juv. in old field.

Stilpnorchlora juv. in corner of

cut bank. Emoceph. in old field.

Microgaster from tangle in trail

side bank. Jamaicana juv. from

ditto

$$13 + 315 = 328$$

$$\text{Other ins. } 6 + 232 = 238$$



1923. 22 Same as 1923.5 but  
VII. 28. 1923. (R.) In banana  
blossoms & dead leaf bases,  
also under stones.

Protobia sp under dead banana  
blossom on ground. Carab. f.  
occasional in banana blossoms.  
Notat. detron ditto, ad. & juv.  
Dermapter relicia under ground  
litter & stones, ad. & juv.

Lichnerchus finally under  
dead leaf bases, rarely in  
blossoms. Gammarus juv.  
in blossoms. Orecharis common  
in banana blossoms, but part  
seen taken. Gryllus under  
dead banana litter on ground

$$47 + 328 = 375$$

$$\text{Other no } 5 + 238 = 243$$

1923. 23, Same as 1923.4 but  
VII. 28. 1923. (R.) Cryptophilum  
and Eligancanthopora under bark,  
chiefly the shredded bark of  
Vaccinium. Agathidium juv.  
under bark. Orecharis under

bark on another species of tree.

$$9 + 375 = 384$$

$$\text{Other ins. } 13 + 243 = 256$$

1923. 24 Same as 1923. 9. but VII. 29.

1923. 3 juv. Mellia in vine tangles. juv. Anisomphala ditto, ~~also~~ Conoroph., juv. Schist. 1 juv. Chlorotia from old field vegetation.

$$7 + 384 = 391$$

$$\text{Other ins. } 38 + 256 = 294$$

1923. 25. Same as 1923. 3 but VII. 29. 1923. In bromeliads <sup>dead tree fern</sup> and <sup>found them</sup> under bark (almost entirely of Vaccinium). Moll. grossbeckii numerous in bromeliads & dead tree fern stem bases. New sp. rel. to Moll. 1 ♀ + 4 juv. all ex bromeliads. Euphyas (?) sp. 1 juv. in bromeliad, extensive search disclosed no more.

Abrupt G. yllina, 1 ♀, jumping on litter of forest floor. Urochroa sp. juv. in bromeliad.



$$20 + 391 = 411$$

$$\text{Other ins. } 16 + 294 = 310$$

1923. 26 Pleasant Hill House,  
Blue Mts., Jamaica. Vm 29. 1923.

(R.) At light: etc. sphingids, these  
but dark in flowers  
Gryllus only Chrys and  
new species of Archyopt 1♂  
 $2 + 411 = 413$

$$\text{Other ins. } 14 + 310 = 324$$

1923. 27 Same as 1923. 5 but  
VII. 30. 1923. Beating in old  
fields. juv. Sch uscripta, also  
saw one adult, escaped. Conoceph  
scarce. juv. Orchard swept.

$$6 + 413 = 419$$

$$\text{Other ins } 2 + 324 = 326$$

1923. 28 Same as 1923. 3, in  
bromeliads only. New <sup>VII. 30. 1923.</sup> juv  
1 ad. 1 juv. 1 ad. ♂ Demopt relicta.

$$3 + 419 = 422$$

1923. 29 Same as 1923. 28  
but under bark of Vaccinium  
and in dead leaf litter



along trail. New fungus 1 ad, under  
bark. *Both. pygmaea* ditto.

Carib. *retro* in dead leaf litter.  
*Both. pygmaea* (?) 1 ♂ in dead leaf litter.  
aberrant *pygmaea*, with sexes,  
numerous in dead leaf litter  
in small area, unnoticed else-  
where.

$$24 + 422 = 446$$

1923.30. Pleasant Hill House,  
Blue mts., Jan. VII. 30. 1923.

(I.R.) *V. pygmaea* at dusk in  
fungus. Remainder attracted  
to light at night, except + beetles.

$$6 + 446 = 452$$

$$38 + 326 = 364$$

*Anisomorpha* ♂ & ♀ in coite walking  
on steps in light. *Periplaneta*  
*amstr.* in kitchen: juv.

*L. americana* sleeping on flowers.

*Caribblatta* (?) 1 ♂ attracted  
to light.

1923.31 Pleasant Hill  
House, Jamaica. VII.31, 1923  
(R.) At night, attracted  
to light unless otherwise  
indicated. Campylopterus taken  
with flash in garden (autumn  
churned off by Lichenochorus). Lichenochorus  
ditto. Hapithus ditto.  
Cometria 3♂ + juv. all on  
ferns in garden.

$$17 + 452 = 469$$

$$\text{Uther in } .43 + 364 = 407$$

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1923.32 Mona great House,  
St. Andrews Parish, Jamaica.  
Elev. 550-600 feet. VIII.3-4, 1923.  
(R.)

Sphingonotus / Schist. inscripta  
on dry hills, with only thorny  
vegetation in large part leafless.  
Sphingonotus on bare spots. Hapithus  
by swept from green low  
bush. Theridion at  
light at night in house.  
Moths all at light about



houses

$$6 + 469 = 475$$

$$\text{Other ins. } 52 + 407 = 459$$

1923.33. Beach at S. end  
of Long Mt. St. Andrew Parish,  
Jamaica. 5 m. E. of Kingston.  
VIII.5.1923. (R.)

~~Sphingonotus~~ in strong waste leading  
to sea. Numerous, <sup>often</sup> crouching -  
not infrequently failing to fly  
when swept. juv. ~~E. symplece~~  
under beach trash.

$$28 + 475 = 503$$

$$\text{Other ins. } 1 + 459 = 460.$$

1923.34 Juápiles, Costa Rica.  
Elev. 984 feet. VIII.11.1923.

(R.) All material attracted  
to lights at "El Salvador," except

$$\text{Orth. } 2 + 503 = 505$$

$$\text{Other ins. } 58 + 460 = 518$$

Range "Leopard" mark on  
wall.

1 ad. moth. Zapoteca a 1 gnat  
blatt. taken in garden under a



1923. 3.5 La Cirilia near Jacupul, Costa Rica. VIII. 12. 1923. (R.)  
Elev. 1000 ft  
up heavy forest about 1/2 mile S.  
Railroad. Various situations.  
Psalis amer. 1 in large hollow tree.  
Banded eggid mesobasis type and  
again imura ditto under dead  
wood & decaying vegetation. Neov.  
natura type from epiphy bromeliads,  
ditto Epilampra sp. (1 spec). Pseudo-  
Phyllodromia 1 on leaves of no  
growth in sunny opening. juv.  
Pseudomops 2 (Pseudoph. clat under  
decaying leaves. magnum ditto.)  
Scaria 1 damaged  
sp., on leaves of vines, etc in sunny  
opening, - partly brilliant green in  
life. Chingilia many dead  
claws on forest floor. Ecdystax  
punched on leaves of a tree &  
two shrubs in open. Neov.  
psis. Nautia 1 General adult  
on ground under low growth.  
Chromasine trigon adult J & J  
on low shrub in open spot.  
Pseudophasma from low  
undergrowth (taken by guide).  
Leptomaculipora numerous





1923.36. Same as 1923.34  
but VIII. 12. 1923. At lights.  
Amnogyllus in house.

Microcentrum resting on wall,

$$2 + 565 = 567$$

$$\text{Other in } 57 + 547 = 601$$

1923.37 Same as 1923.35 but  
VIII. 13. 1923.

Neoblattella nahua in fair no. in  
brachiado. Ich. ? [epineurium]  
near morio in <sup>not</sup> leaf litter. Large  
Ep. L. (same as 1923.35) in brachiado.

Pep. infescent Ep. L. under logs and  
dead branches in ground. Myrmica - type  
Ep. L. ditto. Large Myrmica - type

juv. Myrmica ditto (2). Chimora f  
ditto. Myrmica (?) f a juv. !  
ditto. Myrmica eating a leaf.

Pseudoph. nemus (?), f a p in foliage  
flushed. Leptomeria thopora on

foliage. Microtyphus on  
foliage. juv. M. no. formis 1 ad. f

juv. ditto. These latter three  
not in evidence except when seen  
is missing, then they appear.

Proctos large species numerous on

foliage or on twigs. smaller

Drophus m. & swept from foliage.

Anaulacomera sp. ♂ resting on

leaf. Copishora sp. ♂ & ♀ swept

from low foliage & parasite.

Meurus ? 1 ♂ picked from <sup>low</sup> foliage.

Copius im. sp. 1 ♂, picked from

leaf on which it was resting.

Amastax 1 juv. ♂ from foliage. Physo-

metopus swept from foliage. Phlegis

♂ & ♀ picked, singly, from low

foliage. 1 juv. Eutrypha, very active

- in fair numbers on low foliage, pair

taken. Some Eutrypha swept.

Encoptria common & very active

among twigs under low undergrowth,

adults rare. Phyllus acuminis juv.

frequent in twigs in forest.

$$59 + 567 = 626$$

$$\text{summs. } 25 + 601 = 626$$

~~Phyllus acuminis~~ ~~repand.~~ ~~are called~~  
"muscivora".



1923.38 Same as 1923.34 but  
VIII.13.1923.

No Orth. (626)

Other ins.  $94 + 626 = 720$

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1923.39 Same as 1923.38 but

VIII.14.1923. Many fruits very int.

Palis americana 1 large juv. under

dead wood. Spandex pulcherrimus?

(has no spots) 1 ad. ditto. Epilampra-

pale species in branch. Epil.

sp. repres. by one juv., under dead

wood. Hemiblabra two ♀♀, one

found dead, under dead wood.

Cerophus vatus 1 ♀ in foliage.

Craia cornuta 1 juv. sleeping in

foliage. Ulula? 1 juv. in foliage.

Godaeris castoreus 3 ads. in

foliage of shrubs. Microtylopteryx

furiformis 7 juv. Rhachicnaga

scans in foliage. Pygmaea sp. in

ground and under logs.

Orth.  $20 + 626 = 646$

Other ins.  $10 + 720 = 730$

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1923. 40 Same as 1923. 34 but  
VIII. 14. 1923.

*Paehlina* resting in light  
shade. *Stagmomantis* on wall.

$$2 + 646 = 648$$

$$\text{Other in } 70 + 730 = 800$$

*Stagmom.* "Javan' palo" de Juan

1923. 41 Same as 1923. 35 but

VIII. 15. 1923. Heavy frost, drier than

1923. 39. *Psalis* sp.? juv. 2. in much

under dead wood. *Parasporatta calanti*  
1 ♂ from branched cut from felled tree.

Juv. *Neoblatt. nahua* from branched.

*Pseudophyll. peruviana* very active.

2 under dead wood. 1 ♀ *Stagmomantis*

*nahua* type, swept from foliage. 1 ♀

*Miomyx rapax* swept from foliage of

undergrowth. 1 nearly adult *Xerosoma*

*glyptomeris* as *M. rapax*. 3 ♂

*Pseudophasma minus* flushed -

marked down in undergrowth.

*Curex* sp. ads. + juv. in foliage, taken

by individual effort. *Crematops* sp. ♂ ♀

+ juv. in foliage in light woods.

1 juv. *Libinia* in shade of undergrowth.

*Rhachinura* sp. juv. in foliage.



*Microgaster* *helveticus* *pedicularis* on  
foliage in light and open areas.  
*Urosia* *maculata* 1 ♂ on foliage in  
open area. *U. maculata* numerous  
in restricted area of open glade,  
on foliage. very active, 4 ♂, 6 ♀ taken.  
*Choprus* *spurius* on foliage. *Copiphora*  
*cultivorum* ♂ ♀ (separately) swept  
from foliage of heavy undergrowth.  
*Sphyrnastopus* 2 juv. (nearly adults)  
on foliage, hand taken. *Phyllos* sp.  
♂ ♀, all individually taken from foliage  
of undergrowth in glades. *Pustis*  
*tuberosus* 1 ♀ (only 1 leg) resting  
on leaf of low bush in undergrowth.  
Short-winged brown *Pseudophyllid* (1 leg)  
tucked down in center of brownish  
cut from tree (height of brown from  
ground about 80 feet). *Scopiorus*  
sp. from brownish. 2 juv. *Ministeria*  
swept from foliage of undergrowth  
around glade. *Gryllus* *pro.*  
under dead wood. Red brown  
immature *Gryllus* with black and  
brown, under dead wood. *Pipipterus*  
*imilata* 1 on foliage in forest on  
foliage. Small, greatly winged  
species of *Pipipterus* numerous

in same situation, very active.  
Large brown larva in low foliage  
under rock, in same, in pair  
number, very active. Smaller  
brown larva in similar situation.  
Large yellow larva on foliage  
in same spots. Small green one,  
and, Symphyla sp. sp. sp. sp.  
in same situation.

Anticarsia sp. sp. sp. sp.

$$82 + 648 = 730$$

$$\text{Other no. } 32 + 800 = 832$$

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1923.42. Same as 1923.34 but  
VIII.15.1923.

Schmoptra bilineata prov.  
resting on light wires near bulb.  
2 Dacnospoda taken in  
garden.

$$3 + 730 = 733$$

$$\text{Other no. } 75 + 832 = 807$$

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1923.43 Same as 1923.35 but  
VIII.16.1923.

Polio amer. adult in dead wood-  
dew blood with friceps. Pseudoph.  
peruviana in foliage of inner growth.  
Juv. Pseudoph. ditto. Micra sp. sp. sp.  
jumping about in low dead twigs &  
stems on ground. Libinia sp. sp. sp.



from brush. Juv. of two other  
phasmids similarly taken.  
Scania from foliage. Plectrocnemia

1♂ 1♀ and Uchistotettix 3 ads. all  
taken in small area of dead wood,  
much trash on ground. Eumecurus  
on foliage. Uchistotettix 1 ad. on foliage,  
rather hidden. Microtylop. hebardii  
on foliage. Microtylop. hebardii  
on lower foliage. M. fus. hebardii  
ditto, few adults. Leptomerinthopora  
common locally in open places, on  
weedy growth, ads. + juvs., active.

Rhachicnema few, adults very  
scarce, all restricted to one small  
area, active for such a robust insect.

Musca sp. 1 juv. on foliage.

Callia minutula 1♀ on weedy foliage  
in open spot. ? Phaenocarpa costaricensis

numerous in one spot, on foliage,  
exceedingly active. Crophus 2  
specimens occasional on foliage,  
generally hidden.

Sphyrnites  
1♂ 3♀ a local colony on ground  
in dead leaves & twigs - act much  
like Atlanticus but cannot jump  
as far - but strongly.

Phlegis 1p on foliage. P. Bliaste  
erupt from low fringe. Bush  
green. species of Cyrtospha  
from low fringe. A peculiar  
form of puerperellina represented  
in one pair of each sex, taken in  
low fringe.

$$68 + 733 = 801$$

$$\text{other ins. } 27 + 807 = 834$$

1923.44. Same as 1923.34 but  
VIII. 16. 1923.

Puerp. australasicae on wall of  
house in light. Bilineate prev.

Ischnoptera flying about light.

$$2 + 801 = 803$$

$$\text{Other ins. } 73 + 834 = 907$$

1923.45 Same as 1923.34 but  
VIII. 17. 1923.

$$\text{With } 803$$

$$\text{Other ins. } 54 + 907 = 961$$

1923.46. Same as 1923.35 but  
VIII. 18. 1923. Both heavily shaded  
forest and open spots, latter  
with low growth and little  
shrubby.



Ancistrrogaster sp. 1 ♀ under dead  
wood. Parasparatta calvanti 1 ad.  
1 ♀ in bromeliad on fallen tree.

Anisotaxis 2 sp. (?) all from under  
dead wood & debris of same.

Pseudophyllodromia <sup>pa.</sup> <sub>in</sub> foliage, active.  
Pseudop. juv. ditto. Anaplecta, near  
decipiens, running on ground among  
twigs & dead leaves. Ep. Tanyra p.p.

+ juv. under log & dead wood. Nyctibra  
sp. juv. under dead wood. Megalobatta

1 juv. ditto. Rhincoda sp. 2 ♀♀

& 2 Hemibatta, both under

dead wood. Spanomyx (?) 1 ♀ nearly  
or quite adult swept from undergrowth.

Pseudophasma minus 1 ♂, flying.

Scania 1 ad + juv. on foliage, exceedingly  
active. Allotettix swept from <sup>on</sup> dead leaves

+ twigs in more open spots. Cumastus  
on foliage, very active. Abila sp. 2

juv. in low undergrowth on ground.

Clemilia ads. in more open spots in  
weed-like vegetation. Leptomeristis-

prara common in all types of  
undergrowth, moderately active  
but not hard to catch. Both species

of Microtylopteryx occasional on foliage, fuscifrons probably the more active jumper. Rhachicampa sp. ad. few, but one juv. seen.

Chromacris 1 ♂ seen - taken from foliage. Hellia binaculata 1 pair. 1 other ♂ escaped, exceedingly active - jumping long distances in a single bound, on foliage. Hellia secundopicea 1 ♀, all seen, on foliage. Chrysopodius 1 ♀, all seen, on foliage. Zestperameris (?) 1 ♂, on foliage, all seen. Urophus 2 species, well distributed, on foliage & on ground, not active.

Verniocephalus sp. 1 ♂ on foliage. Eriolus sp. 1 ♂ resting on foliage.

Phlugis short-winged species few.

Phlugis long-winged species 1 ♀ on foliage. Scoparius like pseudophyll. 1 ♀ from foliage. Cocconotus sp.

1 juv. ♂ in ♂ coiled up under & remaining leaf of a <sup>low</sup> palmetto-like plant.

Symphaloxiphus scarce on foliage, several ♂, 1 ♀ taken. Green Cyrtoxipha ditto. Brown Cyrtoxipha



more numerous in foliage. Eucryptina  
sericea only immat seen, in low  
ground - on ground solely in dark  
forest, abundant.

$$127 + 803 = 930$$

$$\text{Uthman. 41} + 907 = 948$$

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1923. 47 Same as 1923. 34 but  
VIII. 18. 1923.

no Uth.

$$\text{Uthman. 7} + 948 = 955$$

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1923. 48 Rio Toro Amarillo,  
near (west of) Guápiles, C. R.  
Elev. about 1000 feet. VIII. 19. 1923.  
(R.) In thickets of caño blanco  
on banks of roaring torrent, and  
about beds of old channels, in vine  
and mata tangles and in overgrown  
clearings. Anaplecta sp. alighted on  
my neck. Stagmomantis juv. - phasmids  
juv. except from creedy growth. Pseudo-  
phyllodromia flitting in foliage. Allo-  
stictix - Parastictix swept from damp  
ground in trail & from grassy spots.  
Orophthalma very scarce, had a juv.  
in weeds & grasses close to river.  
Rhincoda 1 ♂ from under log in  
jungle, remained motionless when

exposed. *Uranilia* not common in  
jungle. *Trochilopoda* centurio 1 ♂  
in old field. *Leptocirculipropia*  
in fair numbers in jungle.

*Microtytopteryx pacificus*, 1 ♂ only  
seen & taken in same. *Trochilus*  
very common in all wet areas.

fw. *Conocoryphus* numerous,  
about 6 species represented.

*Conocoryphus* deep, red species,  
in heavy reeds & grass, also scarce,  
fws. none numerous, very active.

*S. striata* from sp. 1 ♂ except.

*Phlegis* long-winged sp. 1 ♂ on edge.  
*Symphysa* ex. 1 ♂ in reeds.

$$60 + 930 = 990$$

$$\text{other no. } 46 + 955 = 1001$$

1923. 49. *capiles*, B. C. VIII. 19.

423. in potrero of "El Salvador",

grasses & low reeds. *Trochilus* few.

*Conocoryphus* light species, numerous

in grasses. *Trochilus* *brevis* very

fw. indiv. except. *Symphysa* *striata*

abundant in low reeds & grass,

exceedingly active, though running

more than jumping in your net.



$$\text{Orth. } 66 + 440 = 1056$$

$$\text{Other ins. } 9 + 1001 = 1010$$

1923.50 Same as 1923.34  
but VIII. 19. 1923.

No orth.

$$\text{Other ins. } 82 + 1010 = 1092$$

1923.51 Same as 1923.35

but VIII. 20. 1923. *Hypoclypeus* sp.

1 ♀ swept from foliage. *Pseudophylax*.

*pernans* in foliage, about six seen.

*Pseudoph.* 2 juv. with pale median

line, running on dead & fallen tree.

*Anaplecta* near *decipiens* swept from

foliage. *Anaplecta* near *bilineata*

1 ditto. *Epilampra* near *actica*, 1 ♀

under dead log. *Pseudophrosina* *menis*

1 flying in shady forest. *Libethra* *aurita*

(?) 1 nearly adult, swept from undergrowth.

*Tettig.* with pop-eyes and undulate

med. carina, 1 on <sup>thin vegetation on</sup> ~~low~~ ground in open

spot in forest. *Tettig.* with cand.

*pernotus* or serrate interhumeral

median crest, two in foliage in forest.

*Tettig.* with hippo-like high

interhumeral inflation. one on

ground in open spot. *Psatettix* *numeros*

on ground in open spot. *Ocarina* in

fair numbers on foliage and on  
fallen tree trunk. Cynodactylus  
ado. & juv. occasional on foliage.

Rhachicreagra nethra a few ad. ♂ on  
foliage, very active & long jumpers.

Microtylopteryx x pusiformis, numerous  
& rather general in distribution,  
on foliage. M. lehardi not few seen,  
on foliage. Leptomerinthoprocta of  
general distribution. Stellia with  
angvineus pleura, not one seen &  
taken, on foliage. Yellow spotted Stellia (?)  
very local, all seen taken, on foliage.

Aspilota, a single female in low  
undergrowth. Proctos one taken, in  
low undergrowth. Neocnecrophalus  
(imm) one ♀ on foliage. Pezomachus  
Copidota sp. with acuminate astij.  
1 in ♂, on foliage. Thin green  
phyg pseudophyllid tw. no ♂ & ♀,  
on foliage. Scoparius sp. 1 ♂ & ♀ in un-  
rolled leaves of low plant. Large  
Coccinotus in unrolled leaf of low  
plant. Ponca venosa,  
Euphorbia furcata numerous  
in low undergrowth,  
chiefly in shade, very few adults,  
quite active. Actinurus pale 1 ♀ taken



from foliage. Empusa like  
 ♀ (adult), jumping about in  
 foliage. Variegated Ripipteryx  
 on fallen tree trunk. Gray &  
 black Ripipteryx small in ditto.  
 Two brown species of Cyrtorhiza in  
 fair numbers in foliage. Two green  
 species of ditto, also numerous  
 numerous, ditto. Blattella & Cyrtorhiza  
xipha 1 ♀ only, in foliage. Gryllacris  
 juv. swept from foliage.

$$93 + 1056 = 1149$$

$$\text{Other in } 41 + 1092 = 1133$$

1923. 52 Same as 1923. 34  
 but VIII. 20. 1923.

$$\text{Outh. } 1 + 1149 = 1150$$

$$\text{Other in. } 58 + 1133 = 1191$$

1923. 53<sup>1/2</sup> As 1923. 34 but VIII. 24. 1923.

All at light at house! One  
 magnificent Ratiblattella with  
 disk out. with black lateral.  
 One Neoblatt. different from  
 any taken before. One Chorisoneura,  
 one ♀ Parocnethus, one Cyrtorhiza  
xipha with dark lateral lines.

$$5 + 1150 = 1155$$

$$\text{Other in. } 45 + 1191 = 1236$$

1923.54 Same as 1923.35, but  
VIII. 22. 1923.

Parasparatta calumbi in bromeliads  
on filled tree, 1♂. 2♀. ? Echinopsalis  
guttata 1 juv. ♀, in ditto. Antrethia sp.  
One ♀, ditto. Pseudophyll. occasional  
on foliage. Neoblattella sp. one, ditto.  
Anoplecta bilineata type, one swept  
from low growth on ground in relatively  
open spot. Anoplecta species with pale  
lateral borders, ditto. Epilampra  
near cybica found under dead lg. Epil-  
lampra large species with finely  
mottled pattern, flying in forest, marked  
down to resting place on hanging  
creeps & swept. Rhincoda 1♀ under  
dead wood. Pycnosculoides one found  
under dead wood. Pseudophasma  
menius, one flying. Scania occasional  
on foliage, few with caudate pronotum.  
Paratettix sp. in one bare spot of ground.  
Duxalis brevicornis 1 ad. in weed-like  
growth. Eumastax sp. one from foliage.  
Atila juv. on ground & in very low  
growth. Leptomerismophora in fair  
numbers through undergrowth.  
Rhachicera scarce, one adult  
♂ & one juv., on foliage. Microstelo-  
pteryx proformis rather general



but not common. M. tuberculata occasional in undergrowth, active.

Usmilia occasionally in the more open spots. One ♂ each of Ullia minutula & U. truncatula. on foliage, species very scarce. Red colored species numerous on foliage.

Leucocapherus (?) sp, one male, on foliage. Remarkable spined U. larnia, two males, one swept from surface of moss - covered fallen tree trunk, the other swept from fairly heavy bush vegetation about thirty feet away from loc. of first specimen.

Sphyrnometopus 1 ♀ hopping on ground like Attractus in a glade like spot. Large short winged pseudophyllid - taken from new rolled leaf of a large broad-leaved plant. Anantacamera sp. 1 ♀ resting on foliage. Ceropterus general, as usual.

$$80 + 1150 = 1230$$

$$\text{Other no. } 29 + 1191 = 1220$$

1923.55 Same as 1923.34 but  
VIII. 22. 1923.  
no lenth.

$$\text{lenth ins. 11} + 1220 = 1231$$

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1923.56 Colombiana, C. R.

Elev. about 400 feet above sea-level.  
VIII. 23. 1923 (R.)  
In weeds about pineapple  
fields. 1 juv. Cyphulella sole  
lenth.

$$1 + 1230 = 1231$$

$$\text{lenth ins. 6} + 1231 = 1237$$

---

1923.57 Paraismina Siding,  
Rincón Vieja, betw. Mercedes  
and Quácimo, C. R. VIII. 23. 1923.  
(R.)

Symphylorhynchus in weeds along  
railroad track. ~~Bothriophis~~  
~~ground~~

$$4 + 1231 = 1235$$

$$\text{lenth ins. 3} + 1237 = 1240$$

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1923.58

Quácimo, Costa  
Rica. Elev. 500 feet. VIII. 23. 1923.  
(R.) In high grass & weeds about  
tobacco plantation. Crotophaga,  
Microtylopteryx fus. formis &  
Uranidia in heavy weeds. Several  
specimens of Cyrtopogon and Symphylorhynchus.



1923. nigrellus

Xiphos on foliage of weeds. Paratettix on bare ground of path.

$$18 + 1235 = 1253$$

$$\text{Other ins. } 14 + 1240 = 1254$$

1923.59 Same as 1923.34 but VIII. 23. 1923.

3 specimens of Cyrtorhiza with dark lat. line.

$$3 + 1253 = 1256$$

$$\text{Other ins. } 27 + 1254 = 1281$$

1923.60 Same as 1923.35 but VIII. 24. 1923.

1 ♀ large Diplatys swept from low growth in heavily shaded forest.

Amblyderus sp. 1 ♀ under dead wood.

unidentified near decipiens 3 swept from low foliage. Pseudophyllodromia

new in foliage. Ichneumon sp. 1 juv.

black with pale lat. pronotal border, under dead wood. Sp. Campylo near

as seen in same situation. ~~Paratettix~~

Rhinoceros like Epil. 1 juv. ♂ 1 ♀ running in dead leaves - debris on ground.

Pycnosceloides on under dead

wood. Charismura one running

on foliage of low corn. Mionys

rapax ? One ♂ in foliage. Zuleika

Micropterygid, one found in shady  
forest. Pseudophasma membris  
one flying in forest. Pseudophasma  
sp. with red line of legs & wings,  
alto. Hymen, large male, swept  
from low growth. Huge Buckia.  
1 ♀ moving in tangle of low plants  
& vines. Magnificent ferns, covered  
with white-pink, creeping in tangle  
vines, leaves & moss hanging about  
felled trees. The color <sup>and</sup> protection of  
this insect is little short of marvellous  
& it was detected solely by slight  
motion. Scania relatively common  
in low vegetation foliage & also on  
the ground. Hippodamia-like tettigid  
one on bare ground. Series of other  
species of tettigids in bare or  
relatively bare spots in open area in  
woods about felled trees. Truxalis  
brunneus 1 ♀ in low vegetation in  
dark forest. Camilla infrequent  
in more open areas. Alia 1 ♀ &  
1 juv. in forest undergrowth.  
Amastax uncommon in foliage  
in more open spots. Leptomeria  
generally distributed in dark sections



and in sunny openings. Ruadinegros  
♀ only, & came, in more open  
places. Microdylopteryx fusiformis  
generally dist. M. latanda  
less numerous & local, but not  
partial to one type of forest more  
than another. Hellicia miniatula 1♀  
and 1♂ 1♀ of other Hellicia, in  
foliage of undergrowth. Anaulocampa  
1♀ in the growth in sunny spot.  
Erismus sp. 1♀ 1 juv. both swept  
from low growth. Copiphana with  
long acute fusc. sp., 1♀ swept from  
low undergrowth. Phylus, short-winged  
sp., 1♀ from low undergrowth. juv.  
Pseudophyllis from foliage & from  
rolled leaves. Scopion, 2♀ from  
new unrolled center leaves of plants.  
Diophanes sp. 2♀, both resting  
on upper surface of broad leaves of  
undergrowth. ? Blinus sp., 1 large  
♀ from forest undergrowth (fairly  
winged). Coccyzus sp. 1 female  
from undergrowth. Encoptera  
min., in fair numbers, nearly

all mature; more evident in  
darker sections of the forest.

• *Neurospora*-like sp. 1 ♂ swept  
from low undergrowth: Small  
*Empididae* like sp. 2 ♀♀,  
from low undergrowth, swept. *Ectoparasit*  
*cutans* 1 ♂ with ~~various~~ *regimens*  
1 ♂, swept from low undergrowth.  
*Cyrtopogon* 3 sp., all from foliage  
of low undergrowth, chiefly in more  
open spots. *Symphylex* 1 ♂  
swept from ditto, in sunny open  
spot. *Pipistrix* 2 species, swept  
from bare ground & low vegetation  
near it.

★ 128 + 155 = 1383 *Schistocerca* 1 ♀ from  
light undergrowth in forest.  
*Atheris* 38 + 1241 = 1319 *Atheris*

1923. 61 Same as 1923. 34 but  
VIII. 24. 1923. at light.

One *Latiblattella* - all at light.  
1 + 1383 = 1384

*Atheris* inv. 34 + 1319 = 1353



1923.62 Same as 1923.35 but  
VIII. 25, 1923. *Anaplecta* near *cinerea*  
surpt from foliage white scaria  
- juv. *Welfia*. *Microtylopteryx*  
neb. + *Rhachicnagra* hopping on  
foliage + ground. *Suppides* like  
+ *thigib* in trail on ground.

$$10 + 1384 = 1394$$

$$\text{other ins. } 9 + 1353 = 1362$$

1923.62 Same as 1923.34 but  
VIII. 25, 1923.

No *Uth*.

$$\text{Other ins. } 9 + 1362 = 1371$$

1923.63 Guadalupe, several  
miles N. E. of San José, Costa  
Rica. Elev. <sup>3970 feet</sup> ~~4000~~ feet VIII. 29, 1925.  
(Rahn + Johnston)  
Along road + roadside, in *poros*  
and under stones + small bromeliads  
on *poró* tree road borders.  
1 ♂ *Skalistis inopinata* - 1 ♂  
*Mitrosera ruficeps* each in  
an individual dry + small  
bromeliad in *poró* trees along  
road. *Anaplecta* near  
*decipiens* 1 spec. from grass  
along road-side drain (surpt).  
*Eurycotis biolleyi* locally in

numbers along road under  
uprooted stumps & logs. Pyc-  
nosceloides in similar  
situations & associated but  
not as frequent. Uchotettix  
numbers along bare cuts of  
road. 1 nearly adult Setigidea  
~~sp~~ nicaraguae taken in  
same situation, no more encoun-  
tered. Cephulella numerous in  
grass of road side & potreros.

Neuromenia 1 ♂ swept from  
overhanging vegetation on roadside  
bank. Conophalus very scarce  
in grassy patches along road & in  
potreros. Humat. pseudophyllid  
from same situation as Neuromenia.  
Ripipteryx from road bare tracks  
& cut banks of road, adults extremely  
scarce. Humat. fryllus under  
dead log.

$$74 + 1394 = 1468$$

$$\text{Other no. } 57 + 1371 = 1428$$

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1923. 64 Along the Rio Maria

Aguilar, near San Jose, C. R.

Elev. <sup>3640 feet</sup> about same as San Jose.

VIII. 30. 1923. (R. - Tristán.)

In rotten bananas, Eurygaster broleyi adults & juv. in several instars, also one juv. Pycnosculoides. In rolled dead leaves hanging in bushes many Meteorus ruficeps. 1 Proct. zapotica

type from same leaves. 3 Latibrachella near istria. from ditto (all ♀♀). Choriso-  
neura sp. 1 from same leaves, 1 swept

from low vegetation (a pair) juv. of several species of Blattellae swept from foliage, from dead leaves in similar situations. 2 juv. of very robust mantid, swept from low foliage (prob.

Acanthosoma sp.). Stagmomantis sp. 1 juv. swept. Ditigidea nicaraguae with exos, ♂♂ just same adult, ♀♀ not adult, in bare road, bare sp. to

along river bank & even in grass, numerous. Uchroterix sp. 1 same ♂♂ in road.

Truxalis brevicornis 1 ♂ from low meadow growth. Urophyllo numerous in ditto.

Colpoxena truxalis 1 juv. brown ♂, 1 juv. green ♀ hopping along base

a large rock, near wedy  
 vegetation, extensive search failed  
 to disclose more, either adults  
 or juvs. Rhinoderma sp. 1 juv.  
 swept from fringe of low trees along  
 River, extensive search failed to  
 show others. Unicris prob.  
apicalis 1♀ swept from low weeds  
 & grasses just back from river,  
 extensive search failed to show  
 any more but 1 juv. which escaped.  
Schistocerca sp. 1 juv. in low  
 meadows. Urenilla 1♀ under shade  
 of heavy shrubbery. Aidemna  
artica, 1 ad. & many juvs. in all  
 stages (very small ones strikingly  
 & brilliantly colored), numerous  
 in wedy places. Isara prob.  
intermedia <sup>occasional</sup> in both  
 green & brown phases, in weeds &  
 grasses on bench above river.  
Erophus sm. species, 1♂ 1♀, ditto.  
Coconotus ramos, 1♂ & a number  
 of juvs. from dead leaves hanging  
 in bushes & swept from fringe  
 of bushes. 1 ad. Pipistru, from  
 road. Conopsea sp. local  
 in wedy growth.

$$99 + 1468 = 1567$$

$$\text{other no. } 115 + 1428 = 1543$$



1923. 65 La Palma, C.R. Elev.  
(anemid) 4900<sup>5100</sup> feet. VIII. 31. 1923. (R. & T.)

Work done in drizzling rain under  
dead logs, under bark of stumps  
& logs, in bromeliads & moss on  
same & then living trees. Anaplecta  
decipiens - type. In fair numbers  
in moss & under loose bark. Pale  
Anaplecta from moss. Juv. Plectoptera  
from bromeliads. Juv. pale bodied  
orthocentrus from under logs. Euryctis  
pale sp. 1 juv. from bromeliads. Schmoept.  
2 species under bark & dead wood.

Calotampra sp. 1 ad & 2 juv. ditto.

Shiny species (which we already have ♂  
& ♀), from under dead wood. Biolleya  
(?) 5 ♀ + 3 juv. all under dead logs.

Ctenisolabis sp. (1 juv) 2 from under  
bark & moss. Aneluma 2 ♂ 1 ♀,  
ditto. Shiny species of fraxinellid 1 ♀  
ditto. Allolettix sp. one in  
wet meadow. Sititettix scarce in  
ditto. Microtylopteryx fraxinellid  
1 ♀ in wet meadow (!). 2 immat.  
aberrant occanthina fraxinellid  
from under dead logs.

$$45 + 1567 = 1612$$

$$\text{Atherina} \quad 15 + 1043 = 1058$$

1923.66 Same as 1923.65  
but 1X.1.1923 (R.-T.) Work  
done largely in drizzling rain  
as yesterday, but also in recently  
cleared land and border of heavy  
montane forest. Country very broken  
and full of rills. Latia sp. 2 nearly  
under dead wood. Sphingonotus  
sp. 1 ♀ ditto. Ischnoptera rufa occid.  
fairly numerous under dead wood, ad.  
+ juvs. (considering that juvs. this) apparently  
distinct Ischnopt. 1 ♂, same situation.  
Calolampira sp. 2 ♂, 5 ♀ + number of juvs.  
under dead logs + bark. Scania sp. ♂ & ♀  
in bare spots in paths + on low vine-  
like vegetation in recently cleared  
land, in same situation as Allotettix,  
very active. Allotettix sp. both sexes in  
same situation. Long prothoracic  
setigrid with Allotettix - same juvs.?  
Microstyl. fus. frontis but 1 sm. ♂ on  
forest border, in low vegetation. Hellicia  
n.sp. with white spot on subg. pl. 1 ♂ +  
four juvs. low vines + tangle in recently  
cleared land on edge of forest, very  
active, all seen taken. Hellicia with  
uniform dorsal surface, 1 ♀ and 1 juv.  
all seen, in same situation. Hellicia  
with reddish lat. lines + reddish  
dorsal suffusion, 2 juvs. in same



condition. Immature green pseudo-  
 phyllid beaten from tree foliage  
 along road. Phyllus-like species,  
 all immature, in dead wood & under  
 logs. Adult ♂ reddish phyllid  
 taken from under large dead log.  
Phyllid, 1 ♂, 1 ♀, with polished  
brachypterus termina in ♂ taken  
 in vines & low vegetation in very  
 recent clearing.

$$71 + 1612 = 1683$$

$$\text{Others in } 71 + 1558 = 1629$$

1923. 67 Rio Macho, between  
 Guadalupe & La Palma, C.R.  
 Elev. <sup>4400 feet</sup> 4200 feet (uncert.) IX. 2. 1923.  
 (R. & J.)

All from bromeliads on the  
 trees along road fences.

Metasema ruficeps 1 ♂, 2 ♀.

Stalictis inopinata 1 ♀.

Platoptera picta 1 spec.

a number of juv. Blattid.

Chorisoneura sp. 1 sp.

2 juv. pseudophyllid, prob.

Coccinellus rarus.

$$14 + 1683 = 1697$$

$$\text{Others in } 4 + 1629 = 1633$$

1923. 08. El Carpintero, south of  
El Alto, C. R. Elev. <sup>5100</sup>~~5000~~ feet (R.R.)  
to <sup>5700</sup>~~5000~~ feet (aneroid). IX. 4. 1923.  
(Luncheon + Return).

No grass pastures on hillsides,  
tips of second growth forest,  
with bamboo and patches of splendid  
primary forest with tree ferns,  
great bromeliads, etc. at upper  
point. Much bromeliad work done.  
Mitresura from bromeliads, juvs.  
Anaplecta decipiens from foliage, com.  
Psitt. blatt. Zap. tera type 3 from  
bromeliads. D. ch. rufa debilis  
four specimens from under dead  
wood in open & in forest. Stout-  
winged blattid with pale lat. borders  
3 spec., from under dead wood in  
heavy forest. Large black Corycotis  
ads. few & juv. numerous under  
stones and dead wood in forest,  
also in bromeliads - bad  
odor. Spiny Anis anurphine sp.  
1 ♂, from bromeliads. Very robust  
littigid one in dead leaves of  
heavy forest floor. Episphaera  
brunnea 1 ♂ on foliage in forest.



Schist. Zapoteca 1♂ from along  
under of forest. S. truttellae

2 ♀ in low growth in heavy  
forest. Microtylops - juv. from

3♂, 2♀ from heavy forest, under-  
growth and glades. Orophus

stylata H31  
scutellum 1♂ beaten from edge  
of forest. insana

sp. 2 specimens  
from heavy forest  
+ forest + under

undergrowth. Short-  
winged Pseudophyllid

numerous, both sexes, on bromeliads  
many juv. Gryllacis

sp. 1 juv. from  
bromeliads.

Gryllus assimilis

1 ad. from under

dead log. Shiny Gryllid 2♂, 1♀,  
from under logs - stones in

forest. Pale Gryllid with  
long legs., 1♂, ~~from~~ from

bromeliads. Robust Gryllid  
with short legs. 1♂, from

bromeliads.

Chortophaga  
juv. only in  
both color phases,  
in grassy  
fields.

Microplus  
ads. few. many  
juv. in fields

89 + 1697 = 1786  
Others. 49 + 1633 = 1682

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1923. 69 Pacaya, CR. Elev. (approx.)  
6250 feet. IX. 5, 1923. (Cauluskin  
- R.)

In grassy fields, fence rows, scattered  
trees with ferns & bromeliads,  
dead logs.

*Mitrasoura* both sexes in bromeliads,  
all seen taken. *Latia* like  
type 1 spec., in bromeliads.  
*Pras species* 1 ♂ in bromeliads.

*Rhyacholalis* 1 ♀, all seen,  
in bromeliads. *Ich. rufa*  
*dehler* 1 ♀, under dead logs. *Shiny*,  
*trachypterus* *littopeltis* like  
beast 1 ♂, 2 ♀, just in dead wood.

*Euryotis volleyi* in fair  
numbers in dead logs & under  
same. *Mell. Zapoteca* type  
in ♂ from bromeliads.

*Chloroph. merid.* in occas. in grassy  
fields. *Ichist. Zapoteca* type,  
3 ♂, 1 ♀, in weedy & grassy  
fields. Green phasmod. beaten  
from ferns on fallen trees.



Scop. ins. ad. ♂, at light  
at night. 3 immat. pseud.

Dichroplus 1 ad + sev. juvs. in  
grassy field, all adults seen.

phyllids representing 2  
species, from bromeliads.  
Gryllus, from under stones.

53 - 1786 = 1839

Altman 47 + 1682 = 1729

1923.70 Pacayas, C.R. 6000-  
6250. IX-6, 1923. (Lankster  
- R.)

Roadside, grass fields, corn  
fields, forest fringe and depth of  
forest of heavy trees; dense  
undergrowth, <sup>some</sup> heliconias, many  
northern types of trees, etc.

Molobophora reficiens both sexes,  
numerous in bromeliads and in  
under dead wood, logs, etc.

Anisotrogaster in bromeliad &  
under dead wood. Prolabia ♂ &  
from ditto. Moll. of the Zupetia  
type, one from bromeliads. Large  
nitopeltis like species in  
tree stumps, edge of <sup>P. dicamra</sup> ~~wood~~ land.

Small Litopeltis-like species,  
♂♀, from under bark & in dead  
wood. Lissoblatta, one from  
crumblings. Campodes like  
sp. 1 under bark of tree. Emyrotis  
violleyi, all under dead wood  
& bark on stumps & logs. Wyebe  
sp. 1 ad. ♂ 1 juv. ♀, swept from  
foliage in forest. Scania, robust  
species; from ground foliage in  
forest, mainly juvs. Chorto-  
phaga meridionalis in grassy  
fields & roadside, not common.  
Schistocerca zapoteca ♂♂ only,  
not common in grassy fields.  
Microtylopteryx fusiformis 1 juv. ♂,  
along forest edge in undergrowth.  
Orophus sp. in tangles of vines  
along forest border. Black  
Henopelmatus 1 ad. & 3 juvs.  
under bark of dead trees & stumps  
at border of forest. Small Coccin-  
elus, male short legs, ♀ long  
legs. number of juvs. from under  
bark of trees and out of



~~Paragryllus tenuilabris~~  
 dead guarumo leaves,  
 gryllus sp. ads. under dead  
 logs. ~~Rehniella glaphyrea~~  
~~large male Empusa~~  
~~speciosus~~, from under bark, eight  
 feet up in ~~dead~~ tree. ~~Empusa~~  
~~vestitus~~ species, ad ♂, ♀, ♀, ♀, ♀  
 Eurygaster veragialis from under bark of dead tree.  
 other juvs. Empusa  
 in similar situations. Pale  
 ♂ Drosophila species from  
 under dead log. Microgaster panamae

$$92 + 1839 = 1931$$

$$\text{other inv. } 75 + 1729 = 1804$$

---

1923.71 Betun Pacayas -  
 Coliblanco, S. E. slope of Irazú,  
 C.R. Elev. 6700 feet. 1X.7.1923.  
 (Lambert - R.) Beating shrubby  
 along run in strip of forest. 1 juv.  
 Mimica <sup>surpt.</sup> from foliage. 1 Para-  
 tithix surpt from bare ground &  
 grass.

$$2 + 1931 = 1933.$$

$$\text{other inv. } 4 + 1804 = 1808$$


---

1923.72. Abon Coliblanco, S. E.

Slopes of Dragón, C.R. Elev. 8300 feet.

IX.7. 1923. (Lankester - R.)

In dead wood - under logs. 1 ♂, 2 ♀  
& number of juvs. of Praso (?) or  
Rhyacolabis.

$$6 + 1933 = 1939$$

$$\text{Atherine } 1 + 1808 = 1809$$

1923.73 N.E. slopes of Dragón, C.R.

Elev. 4000-9150 feet. IX.7. 1923.

(Lankester - R.) <sup>Head of Toró Amarillo</sup> in heavy forest, with

many Gumera, along old trail, with

very steep slopes & sheer cliffs below,

rock broken, lava, pumice and bedded

ash. Alt. Dist. abn. Taken by

shaking dead leaves of Gumera. Num-

erous ♂♂ & ♀♀ & some juvs. of Praso (?) or

Rhyacolabis. Large series of both sexes

of Tristanella biaculeata.

$$42 + 1939 = 1981$$

$$\text{Atherine } 12 + 1809 = 1821$$

1923.74 Pacayas, C.R. Elev.

6250 feet. IX.6. 1923. (L. - R.)

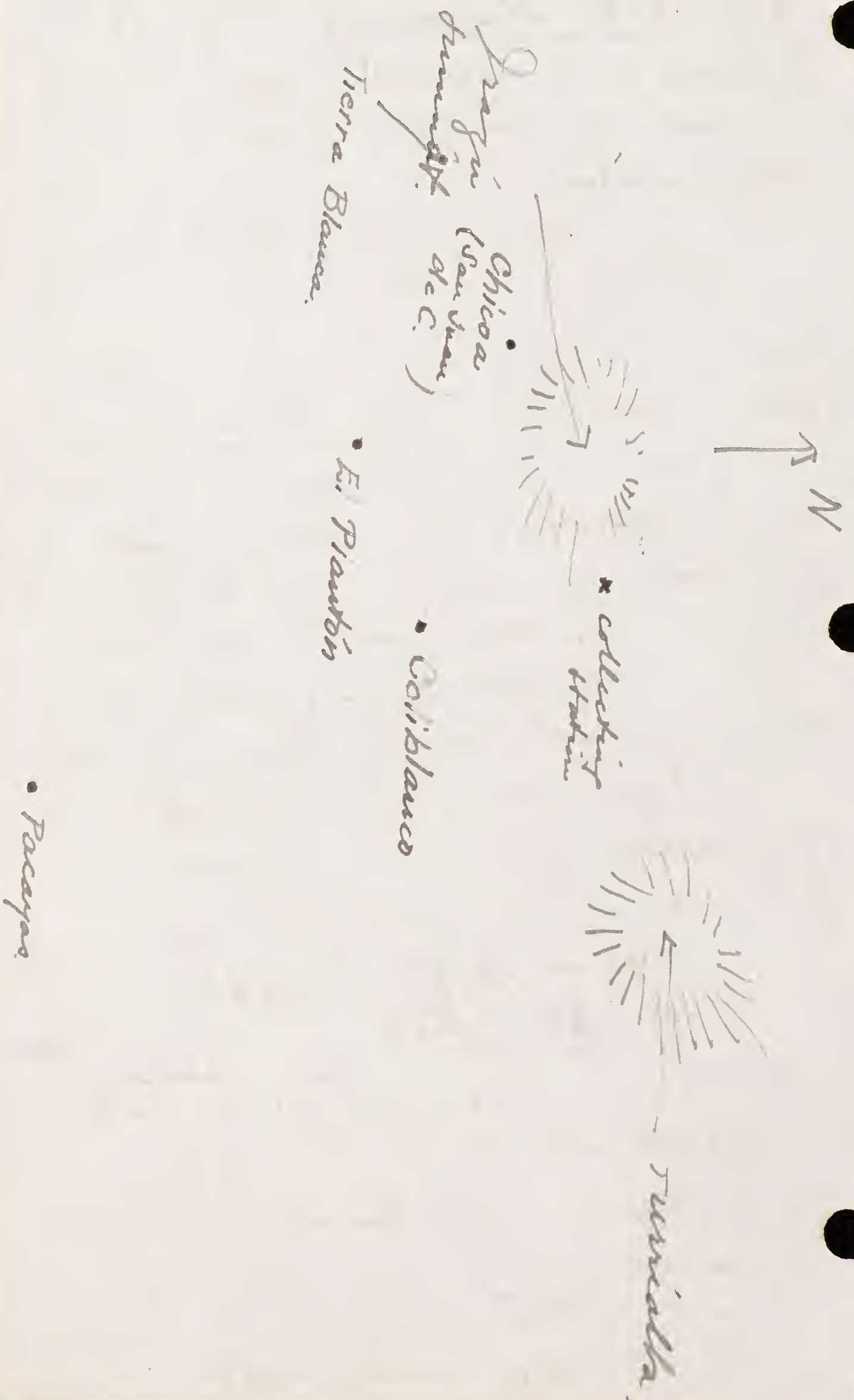
At light. 1 ♀ Enicospila & 1 Pro-

Cotophora.

$$2 + 1981 = 1983$$

$$\text{Atherine } 8 + 1821 = 1829$$





1923.75 Beloso Pacayas, Trinidad  
Paranatero, C. R. Elev. 4800-5900  
feet. IX. 8. 1923. Lamberton -  
Rehm.

In grassy fields and in one  
piece of dry hillside forest, with  
but little dead wood - no bromeliads.  
Small Litopeltis sp. 1 ♂, 2 ♀ under  
dead wood. 1 ♂ Ichneumon debilis  
ditto. Bituminate Anaplecta swept  
from foliage. Chorisoneura 1 ♀ with  
ovotheca swept from foliage. Epi-  
lampira sp. 2 ♀ from dead wood  
(Lamberton). Eurycotis holleyi found  
dead. Paratettix swept from bare  
spots in woods. Silvitettix, ♂♂, ♀♀, juvs.  
from woods, hopping in dry open  
spots, where sunlight filtered in, many  
Orphulella in fair numbers in grassy  
fields. Rhachicera 1 ♂, 1 ♀ + juvs.  
in foliage in woods; active. Insana  
spicosa 1 ♀ hopping in dry  
part of woods. Oreophus (particularly  
♂♂ well distributed) (males,  
in woodland brush. Minetia  
juv. beaten from undergrowth



in words. Small Amphiacustis  
sp. 1 ♂, from under dead words  
Polished pyllia, 1 ♂, 2 ♀♀,  
hopping on ground seen in first.  
~~black~~ Aidemna 1 juv. in  
words low growth.

$$40 + 1983 = 2023$$

$$\text{Ulther ins. } 17 + 1829 = 1846$$

---

1923.76 Uesta Farm, Estrella  
Valley, C.R. Elev. about 200 feet.

IX. 11. 1923. (R.) In dense forest,  
with more palm than that at La  
Cruz, but less impressive trees  
and in general not as productive.

Paratta series all under bark of a  
dead tree, with Capucina. Urisalis  
sp. 1 ♀, same location.

sp. swept from foliage. Pseudophyllodesmia  
Pseudophyllodesmia

Proclattella sp. 1 spec. Urisalis 1 sp.  
ditto.

in dead leaves on ground.

Anaplecta of decipiens type, in dead  
leaves - from foliage. Panchlora ?

juv. under dead word. Epilampra

2 species, shaken from dead guano  
leaves. Capucina patula 1 ad +

imm. juv. from under bark of

dead tree with paratita. ♀ Mimox  
running on dead leaves in ground.

Juv. Stagmomantis (?), taken  
from foliage. Juv. Ceroys (?), taken  
from vegetation. Settigia with  
rich rose coloration and wavy-  
undulate median carina, 3.0 juv.  
taken walking on rich rose bark of  
dead tree. Other three species of Settigia  
except from ground among undergrowth  
or in open trail. Eumastax 1 ad.

except from vegetation, juv. numerous  
in same situations. Juv. Dacnophora  
except from foliage. Juv. Musia  
ditto. Dacnophora centurio along  
farm road through bananas just  
before entering forest. Orophus large  
species, occasional in forest. Juv.  
of three species of Phaenopterinae,  
all taken from foliage. Juv. Eriolus  
from foliage. Juv. Physometopus  
hopping on ground under corn.

Neonemophalus sp. resting on low  
plant in forest. Pair of Cocconotus  
shaken from dead guavacana leaves.



~~Agave~~ Scopimus - like species

ditto. ~~Ponca~~ numerous in

forest, mainly juv. Large

smooth, dark brown gilded from

under bark of dead tree. Amphicarsus phalaris

2 specimens from under hollow log.

Small Amphicarsus sp. with

greatly reduced tegm. in dead

leaves. Three species of Cyrtosiphia, black,

brown & green, all on foliage in forest.

Remarkable Symphysiphid, with

honey-dew shaped punctal marking,

1♀, swept from forest fringe.

$$100 + 2023 = 2123$$

$$\text{Other no. } 21 + 1846 = 1867$$

1923.77. Aurora Farm, Estrella  
Valley, C.R. Elev. ab. 100 feet.

IX.11.1923. (C.R.). In potrero of  
cleared forest, some large logs  
about, but none gilded my ants.  
Jettizids swept from along path  
in heavy grass. Juv. Emphid  
unicornis in grass. Common  
emphid numerous in  
grass, both sexes taken.

very scarce. *Conocoph.*, ♂ with shorter,  
broader series, very scarce, search  
brought solely the single ♂ to light.  
*Symphylorhynchus magn.* common in  
tall grass. *Maxipha* like sp.  
ditto. Small black *Cyrtorhynchus* not  
common in grass, two ♂♂ taken  
all sum. = *Symphylorhynchus nequellus*

$$49 + 2123 = 2172$$

$$\text{ethers. 11} + 1867 = 1878$$

{ Also 1 *Ich. rufa* in house at  
night.

- 
- 1923.78 Saturna Farm, Estralla  
Valley, C.R. Elev. ab. <sup>100</sup>100 feet.  
IX. 12. 1923. (R.) Along border of  
wet forest and in bananas. *Balis*  
*americana* 2 ad. + juv. in trash under  
head of  
dead palm on edge of forest. 1 *Pyrausta*  
*fuscata* ditto. *Labis* sp. in leaf  
bases of same palm and in dead stuff  
on ground under leaf bases. 1 *Com-*  
*psodes* in trash on ground under  
same. *Pseudophyllodromia* on  
forest foliage. *Noth. nahu*  
in fair numbers in dead banana



leaves. Neob. ? fratricula common  
in the same, & imm. juv. Large  
heavily mottled Epilampra  
from <sup>under bark of</sup> dead banana ~~leaves~~ tree. Caprima  
1 ad. + juv. ditto. Panchlora sp. juv.  
in ground debris in banana-groves.  
Ritopeltis ? sp. 1 ♀ taken from  
dead banana leaves. very small  
juv. mantled swept from vegetation  
under banana trees. juv. priopoid  
phasmid taken from dead banana  
leaves. Cumaceta from foliage  
on forest margin. Truxalis brex.  
1 ♀ in tall grass under bananas.  
Arphulilla sp. ditto. Somilia  
occ. in banana stands. Micro-  
lytoptryx fr. fr. / apparently  
local in forest margin, in tangled  
vegetation. Rhachicregra rare,  
ditto, all seen 1 ♂ taken. Tacris-  
orda centurio 1 ♂, all seen, in banana  
land, in weedy growth. Microcephalus  
sp. 1 ♂, 1 ♀, in weedy growth under  
bananas. Crophus, ditto. Both  
species of Mercur. very local &  
uncommon in ditto. Three species  
small psyllids all taken from

foliage of forest border.

$$88 + 2172 = 2260$$

Other in  $52 + 1878 = 1930$

---

1923.79 Same as 1923.76 but

IX.13.1923. Same forest conditions.

Caprimia juv. under bark. Pseudo-  
phyllotromia on foliage. Not.

sp. shared from <sup>dead</sup> guercu leaves.

Spurius x-like mauriti 1 ♀ + 1 juv.

running on ground. juv. Bolbid

mauriti, ditto. Pseudophasma

mauriti flying in forest. Immat.

prisopoid Phasmod beaten from

foliage. Ittigid with irregular

median carina on bark of moss,

tree trunk. Ittigid with high

median carina on bare spots, such

as along trail. Eumastax sp., ad.

very scarce, juv. numerous, on

foliage + low undergrowth. Abila

1 ♂ 1 ♀ in undergrowth. Micro-

tylopteryx few frinis numerous

in undergrowth + <sup>rarely</sup> in higher

foliage. juv. Nantia swept

from foliage. juv. Tenebrionidae

from mosses on outside



of forest. Crochus abundant  
 in undergrowth, brown, frequent  
Viadana sp. 1 ♂ swept from foliage.  
Sphyrnetopus 1 ad. + juv. hopping  
 on ground, adult in dead leaves &  
 twigs. Phlegis 1 ♀ swept from  
 foliage. 1 ♂ 1 ♀ Copiphora cultusortis  
 swept from foliage together, probably  
 in in coitu. 1 ♀ Erishes sp. swept  
 from foliage. 1 green, 1 brown ♀ ♀  
Mormonophalus ditto. 2 juv.  
Mimeticia swept from foliage.  
Encoptera = ~~Poncia rubra~~  
~~on~~ ~~in~~ ~~numerous~~ on  
 ground & in low growth, but adult  
 scarce. 2 ♂ of remarkable Encopterus  
 species swept from low growth.  
 Green Cyrtixipha swept from  
 foliage - low growth. Brown  
Cyrtixipha & the species, 2 ♂, with  
 bicolored legs swept from same.  
 New Symphylexipha 1 ad ♀ & 1  
 juv. from low growth.

$$96 + 2260 = 2356$$

$$\text{Others} \quad 16 + 1930 = 1946$$

1923.80 Pandora Farm, Estrella  
valley, C.R. Elev. ab 1000 feet.

IX.13.1923. (R.) In dense forest,  
more swampy than at Uesta Farm.

Gongrocnemius from rolled leaf.  
Juv. Pachlora from under dead  
wood. 1 Microst. fus. formis from  
low growth. Anaulacamera sp. 1 ♂  
resting on leaf of young palm.  
Short-winged flytid 1 ♀ under  
dead wood. Amphiaca sp. 1 juv. ♀  
from hollow in dead wood.

$$11 + 2356 = 2367$$

$$\text{Other ins. } 14 + 1946 = 1960$$

---









Juapiles C. R. Tally  
 Aug. 12-10. - 44 species.

"	14	3	"	add it
"	15	14	"	"
"	16	5	"	"
"	17	1	"	"
"	18	9	"	"
"	19	4	"	"
"	20	11	"	"
"	21	5	"	"
"	22	5	"	"
		<hr/>		
"	24	10	"	"

101

Cerrn. of,  
 not counted 112

Vicinity of  
 San José &  
 La Palma 32 172

La Capintera 11 Estrella  
 Valley 19  
 155 191

Pucayas  
 2 days 12 Total  
 167 sp. C.R. 191  
 Ingu slopes 3  
 170  
 Last day Pucaya 2  
 172

Costa Rica

1927





1927. 1. Las Concaras, Costa Rica.  
Elevation <sup>approx.</sup> 4550 feet. VII. 22, 1927. (R. + L.)  
All taken from orchids on  
building supports in green house  
at night with aid of flash lamps.  
Mitrocera. A number seen, mostly  
immature, adult pair taken. Skalistes  
numerous, six taken. Neoblattella  
species. One male on orchid. Cery-  
cotis billeyi on building wall.  
Pseudomiopteryx infusata One ♂  
resting on orchid. Minetica sp.  
juv. similar in situation. Immature  
pseudophyllids. Numerous on  
orchids which they eat. Several  
taken.

17.

1927. 2. Same as 1927. 1 but in  
weedy field along edge of coffee.  
VIII. 23, 1927. (R. + L.)

Crochus 1 ad. many juv. seen. Moera  
1 ♀ in weeds. ~~At~~ Heichroplus  
quite a few, 2 taken. Ozophorella  
1 ♂ taken, all seen. Schistocerca  
2 ad. seen + taken, numerous  
juv. several taken. Episactes  
brunnei 2 ♀♀ seen, 1 taken.



in full woods. Cremophanes  
several in same. Metresura  
from bromeliads on <sup>coffee</sup> trees.  
Skalistes; same.

$$15 + 17 = 32$$

1927. 3. Las Conchas, Costa  
Rica. VII. 23. 1927. From bromeliads  
on myrtle & other trees. L+R.

Neoblattella sp. 1 juv. bromeliads.  
bromeliads, both sexes taken.

Ischnoptera large sp. One taken,  
2 juv. bromeliads. Ischnoptera short winged  
1 ♂, 1 ♀. bromeliads. Klitzypa  
(?) sp. 1 ad. ♀ bromeliads.

Emycolis trilleyi; 1 under bark.

Metresura num. in bromeliads.

Arphulatta 1 ♀ in grass  
 $32 + 20 = 52$

Other insects 10

1927. 4 Same as 1927. 1 but  
at light at night in house.

1 Pseudoniopleris ♂. Pseudoniopleris  
moths. L+R. VII. 23. 1927

$$52 + 1 = 53$$

Other inv.  $10 + 6 = 16$

1927. 5. Same as 1927. & the VII. 24. 1927.

Meliponine bees from flowers in garden.

L + R.

Utch. 53

Other ins.  $16 + 14 = 30$

1927. 6. Navarro, Costa Rica.

VII. 24. 1927. Elev. (aneroid) 3800 - 3950 feet.

L + R.

Work done on edge of heavy forest in low undergrowth of various herbaceous plants, many spiny, also under bark, under dead logs & branches and moss on same. A few things from cleared land adjoining forest.

Mitrocampa, 1 ♂ under bark of dead log. Anaplecta of mexicana type. 4 under moss on tree roots & in dead leaves on ground.

A. analisignata type, 2 ditto in dead leaves on ground.

Centlastoblatta (?) 2 ditto.

Pseudomops 1 on leaves. Schizoptera short-winged. 1 under bark of root.

Epilampra (oral sp.). Under bark on large tree. 1 ad, 1 juv.

Ritopeltis 1 ♂, 2 ♀, 2 juv. Under bark of tree in forest. Strange striated tegmina.

Capricornia 1 ad. Same as Epilampra.

Pseudomniptera x 1 ♂ in forest.

Tettigidea sp. Pair in coites in forest.



Plectromerus<sup>(?)</sup> sp 2 ♀♀. In forest  
on leaf covered ground.

Eumastax dentatus 1 ♀ on  
broad leaved plant in forest.

Urophylloides One in open grass  
area on edge of forest.

Truxalis brevicornis 1 ♂ 1 ♀ In ditto.

Chiropterus Along edge of forest 3 taken.

Rhachicera In fair numbers in  
forest, mainly immature. On  
ground and on low foliage. Active.

Silvettix Ditto. Numerous.

Microleptus ~~tetras~~ tristatus  
As in Rhachicera.

Hylopedetes crucatus. In similar  
situations, but less common.  
Mainly immature.

~~Helia~~ Hryasaris n.sp. (?) Scarce  
on foliage of broad leaved  
plants. All seen taken. Abdomen  
of abdomen of ♀ with distinct  
metallic sheen.

Insara. Both green + brown phases,  
chiefly immature. Not common.  
Adults + juvs.

Crochus tessellatus 1 brown  
individual on low forest foliage.

Orophus small green sp. Both green & brown phases. Common in forest in low foliage.

Sphyrmetopum, 1♀ ad. hopping on ground among dead leaves.

Stenopelmatus 1 sm. juv. (black) under bark of rest.

Mnuchea 1♂ + 1♀ in coitu. Hopped from under side of bush with spiny stems & spiny large leaves. (Urera sp. acc. to Lankester).

Large Amphiacustine gryllid. Four adults - 1♂, 3♀, from under bark of large lone tree off from forest edge.

Gryllus assiniensis 1 juv. in forest floor.

Small amphiacustine gryllid with greatly reduced lat. tegmina.

1♀ in forest floor.

Cyrtoxipha sp. One on low forest foliage.

Moth has most remarkable procrustian pose when at rest.

$$53 + 107 = 160$$

$$\text{Other ins. } 30 + 70 = 100$$



1927. 7 Ipi, Costa Rica. VII. 28. 1927.

Elev. about 100 m. below Rio  
Machio (see old notes) (T. & R.)

Under dead wood alongside of  
road. 2 Eurycotis holleyi.

$$160 + 2 = 162$$

$$\text{Other } 100 + 2 = 102$$

1927. 8 La Palma. VII. 28. 1927.

Elev. already han. (T. & R.)

Along trail in partly cut out  
forest. Beating, sweeping, under  
dead wood, etc.

Anaplecta lateralis type. Two in  
dead leaves & bark.

Melospiza 1 ad. segm. ♀.

Under dead wood.

Ep. lampyrus 1 juv. ditto.

Microlypterus 1 juv. 1 ad.  
foliage.

Ptilinopus sev. juv. hopping on  
ground.

Arremonops type. Numerous on  
ground & low vegetation.

Arremonops sev. ditto.

Sphyrapicus 1 ♀ hopping  
in low growth on cleared ground.

1 ♂, 1 ♀. Nearly apterous gryllid.  
adult in forest on rain soaked ground.

$$162 + 27 = 189$$

$$\text{Other } 102 + 33 = 135$$

1927.9 As 1927.8 but at light at night. Night foggy.

1. Ichneumon rufa var.

$$189 + 1 = 190$$

Worth Others 135 + 220 = 355  
butterflies.

1927.10 As 1927.8 but VII. 29. 1927.

Taken along road in soaked vegetation and along stream course extending into patch of forest.

1 juv. Ichneumon rufa. Under dead wood.

1 Ichneumon fucica type. ditto.

1 juv. Ratibattella ~~ditto~~ in moss on stump.

1 sm. black Ceryiid such as was taken at Navarro. Under bark on dead log.

1 ad. ♂ Neurobius like spec. on ground among soaked vegetation.

Scorpio sp. 2 juv. On low foliage.

Achillobattella among ground growth.

Uroctonus On low foliage.

Microgaster frictus 2 ♂ on foliage.

$$190 + 21 = 211$$

Worth



Also 1927.10 afternoon

Microtylopteryx frustan varius

stages of immaturity in grasses  
& low plants on recently cleared

land at forest edge. Allotettix &

Uchetettix, <sup>among</sup> ditto. Scania adults on

leaves, etc. in same situation.

Remotia like gylline. both sexes adult

in same area. Perometopum (?)

juv. in same situation

$$211 + 21 = 232$$

letter 355

---

1927.11 La Palma, Costa Rica.

VII. 29. 1927. (T. & R.) At light &

1 Ich. rufa occid. in house. <sup>night</sup>

Far fewer moths than on previous

night. Night raiding.

$$232 + 1 = 233$$

$$\text{letter } 355 + 56 = 411$$

---

1927.12. Same as 1927.8 but

VII. 30. 1927.

In cleared land, scattered bush  
clumps, cut banks, etc. along road.

Mitrocera sp. 1 juv. ♀ from small  
branched growing on cut bank.

Uchlatella sp. ♂ & ♀ in drier moss  
on dead wood.

Black coryiid in dead wood & leaves  
under logs.

Epilumpra sp. juv. under dead logs.

Altotettix & Cheilotettix same sets.

collected yesterday.

Ripipteryx sp. swept from bare soil at foot of cut bank.

Immature large amphiacanthine type. Under log.

$$233 + 24 = 257$$

$$\text{Cethus } 411 + 16 = 427$$

---

Also 1927. 12 afternoon.

1 immat. Lania in moss on dead log. Everything soaked.

1 ad. ♂ short-winged Ichneumonid.

From moss on tree trunk. 1 immat.

Perisphaerid ditto. Black coryiid,

one in moss on log on ground, the other in kitchen of finca on wall.

1 ♂ 1 ♀ Anaplecta of lat. type in moss on logs.

Cheilotettix in low ground growth. Scaria on ground vegetation.

Nemobius-like pyllus, as Cheilotettix, very active and elusive.

1 juv. ♂ in low ground com.

$$257 + 17 = 274$$

$$\text{Cethus } 427 + 19 = 446$$

---



1927.13. Same as 1927.11 but VII.30.1927

Great<sup>er</sup> clouds of moths at light -  
all Coleoptera seen taken.

Large Scarab. sounded like aeroplane  
coming through air. Night foggy.

Cnth. 274

Ctho ins.  $446 + 332 = 778$

1927.14 Assezi, Costa Rica  
VIII.2.1927. (R.). Elev. (by  
aneroid) 4800 feet at working  
point. Along road through coffee  
plantations, collecting in grass patches,  
in stumps, slopes of cut banks and  
unchanging vegetation & beating  
trees. Every species of Cnth. seen was  
taken.

Metrusura ruficeps Beuten from vine  
foliage & from bushes. ♂ & ♀.

Ratiblattella parida. 1♀ Beaten from  
foliage.

Schmaptera rufa group. 1 juv. under  
dead wood.

Heteronemia sp. 3♂ ~~3~~ Beaten  
from foliage. ~~3~~

Brotra (?) sp. 2♂ 1 brown 1 green.

~~2♂~~ ~~2♂~~ Same habitat.

Alchotettix sp. Smpt from ground. ad.  
& juv.

Tettigidea sp. ditto (nearly ad.)

Eumastoid sp.? 1 ad. ♂ swept  
from low foliage - minus  
hind legs when captured.

Urophlella sp. Abundant in  
grass as juv. all ads. seen taken  
from + from phases.

Chiropterus (?) juv. numerous in  
grass + low foliage.

Stilpnochlora quadrata. 1 juv. ♂  
swept from low branches of large  
leafy tree.

Anaulacromma digitata 3 ♂ 1 juv.

Beaten from low growth + bushes +

vines. juv. 1 swept from bushes.

Pseudophyllid - prob. Coccinellus  
fulgescens - ~~see~~ all juv. seen  
in low bushes (beating) but no  
considerable colony under loose  
bark on stump along vine fence.  
Buff + blackish. Black on face  
somewhat variable in depth.

Mimotria sp. 2 sm. juvs. swept  
from vines - bushes.

Ripipteryx with yellow edged  
pron. 2 ad. swept from grass +  
low ground.



*Ectotrypa* like bract. Three juvs.  
beaten from low foliage.

Spring  
hemiptera  
clustered in  
low plant.  
all juvs.

$$274 + 60 = 334$$

$$778 + 140 = 918$$

1927. 15 El Alto de Achomogo,  
Costa Rica. VIII. 3. 1927. (R.)  
Elev. 5150 feet (Pittier)

Collecting done in grass area,  
used grown trail with hanging  
vines and extensive work on  
brachiads, *Laqueumedium* + small,  
dry - wet types, in isolated  
trees in rolling potrero.

*Metasura* numerous in brachiads,  
ads. - juvs.

*Pravo* sp. ditto but all adults.  
Very local. From one brachiad.

*Chorisneura* sp. ditto. All seen  
taken. <sup>adults only</sup>

*Plectoptera picta*. ditto. adults  
only. All seen taken.

*Euryctis biolleyi*. In brachiads.  
Few adults, but all stages imm.

*Ratiblattella parva*. Scarce in  
brachiads. Three, all seen, taken.

Insara juv. in tall weeds &  
grasses.  
Chorephalus juv. Few in tall  
weeds & grasses.

$$334 + 75 = 409$$

$$\text{Athena } 918 + 83 = 1001$$

1927.16 Rio Maria Aguilar,  
near San José, Costa Rica.

VIII.5. 1927. (R.) Elev. 3750 feet  
(aneroid).

Work done along coffee fences, in  
vine and bush tangles at river  
bank and in fields, also back  
work and examining roadside  
trash.

Meteorus 1 ♀ beaten from vines. Ochus-  
bettix 1 juv. in road (grassy). Truxalis  
brunneicornis 1 ♂ in bush tangle. Aphidius  
all juv. numerous in field & along  
road. Schistocerca 1 very juv. in  
bush tangle. Aidennina juv. in a  
number of instars - along road &  
in tangles. Ampelophila with (prob. apicatus)  
orange apex to abd. in adult, 1  
ad. ♀, a number of juv. in  
various stages. In vine and  
bush tangles only, very local.  
Long search revealed but 1 ad.



Urophus wateri 1 ♀ <sup>in grass.</sup> ~~beaten from~~  
viadana sp. 1 juv. Beaten from  
vine tangle. Isara sp. juv. ditto.  
Concephalus sp. 1 juv. in grass.  
Coccinatus juv. Beaten from trees.  
Strange psyllid immature. Ditto.  
Ripipteryx x orange bordered, along  
road.

Casoids all beaten from vines,  
bushes & trees.

$$409 + 31 = 440$$

$$\text{Altus } 1001 + 65 = 1066$$

---

1927.17 Acacri, Costa Rica

Elev. (on basis of church elev. ex  
Piñica), 4400 feet. VIII. 5, 1927. (R.)

Collecting done along coffee fences  
in epiphytic vegetation (no bromeliads)  
on poró and quitile trees in fences,  
bark of same, roadside grass,  
vine & brush tangles on cut  
banks.

Metusma beaten from trees. 2 juv.  
Chorisomera 2 beaten from vine  
tangles on cut bank.

Sermyle 1 ♀ + a number of  
juvs. beaten from hanging  
vine tangles on cut bank.

Paratettix sp. juvs. in bare areas  
of road.

Urophyllo Few adults in roadside  
grass. Aidemina 1 juv. in  
ditto. Ampeliphila sp. 4 juvs.  
from vine tangle on cut bank +  
in grass at foot of same.

Rhicroderma sp. 1 juv. Beaten  
from vine tangle on cut bank.

Isara juvs. ditto.

Urophus vatus sev. in grass.

Coccomus sp. juvs. in many  
stages - common on poró and  
pititi trunks, in agar hedges,  
beaten from trees & vines. Selection  
only retained.

Mimetica sp. Adult ♂ Taken  
from crevice in poró trunk  
with many epiphytic plants.

$$\text{Orth. } 440 + 47 = 487$$

$$\text{Other ins. } 1066 + 16 = 1082$$



1927. 18 San Isidro de Coronado,  
N. E. of San José, Costa Rica. VII. 6. 1927.  
Elev. 4300-4400 feet. (R.)

Collecting done along roadsides through  
coffee plantations and pastures,  
cut bank vegetation, drain roads,  
orchids and mosses on guatila-  
and poró fence trees and a little  
loose bark. No branchiads seen.

Metacoma numerous in mosses &  
earth particles among roots of  
orchids. Stalictis ditto.

Euryctis holleyi. But a single adult,  
altho' numerous juvs. Mainly under  
bark, but also in root tangles of orchids.

Stagmomantis sp. 1 juv. from  
vine tangle hanging on cut bank.

Cerophas cratus 1 ad. & sev. juvs. in  
grass & cut bank.

Minutica sp. 1 juv. male in among  
small orchids on poró.

Gongrocnemis sp. 1 ♂ 1 ♀ & juvs.  
(ads)

Among orchids, under loose  
bark. Moara sp. 1 juv. from  
vines on cut bank.

$$487 + 51 = 538$$

$$\text{Others } 1082 + 54 = 1136$$

1927. 19 Same as 1927. 15 but  
VIII. 7. 1927.

Collecting done in rain and  
drizzling. Examining bromeliads  
on various trees, bracing trees,  
bushes, vine tangles, etc. No sun,  
little stirring.

Mitrocara + Thalictes in bromeliads on  
poor stubs, etc. along roadside. Sometimes  
the two were together, again individually  
localized. Sometimes in small  
colonies, again single ind. Chorisomera  
both taken from trees - from bromeliads.

$$538 + 44 = 582$$

$$\text{Others } 1136 + 8 = 1144$$

1927. 20 Pejivalle, Costa Rica.  
VIII. 9. 1927. Elev. (amer.) 1850  
feet. (R.)

Act house at night only.  
1 Psalis americana, 1 Peripl.  
anstr. 1 Anaplecta unalisignata,  
3 Worm lineare, 1 Notomysa  
nitida, 1 Cyrtosipha, light br.  
with dark humeral line. f.  
1 Mesomer. triops.

Elater has 2 luminous spots  
on prothorax

$$582 + 9 = 591$$

$$\text{Others } 1144 + 13 = 1157$$



1927. 21. Pezivalle, Costa Rica.  
VIII. 10. 1927. (R) Elev. 1850 -  
2100 feet.

In banana fields, in old wood  
from areas and in heavy forest on  
hilly slopes.

Parasparattia sp. 2 ♂ in large forest  
brumeliad. Gracilid blenn. 1 ♀  
nearly ad. from smaller brumeliad  
in forest. Anaplecta analisignata  
1 surpt in forest. Neoblattella sp.  
♂ and ♀ from dead and hanging  
banana leaves. Epist. abdomen-nigrum  
1 in same habitat. Immot. blatt.  
with brown median line, ditto.  
Ochetotettix sp. 1 in forest + flom.  
Usimilia infreq. ad + juv. in bananas.  
Microtylpteryx frigidum type 1 juv.  
♀ in forest low vegetation. Rhachicreagra  
rare ad + juv. ditto. Leptomerinthopora  
1 ♀. ditto. Orophus numerous  
in forest, low vegetation. Neocor.  
ad + juv. both color phases, ditto  
Pomox-like fly blid. 1 juv. ditto  
same habitat.  
Cyrtoxipha - all brown species. One - same

habitat.

$$591 + 29 = 620$$

$$(ethus 1157) + 22 = 1179$$

Same P.M.

Collecting in fields, a few bromeliads  
on trees in potreros, grass, weeds along  
roads, shrubbery.

1 juv. Meteorus in bromeliad.

Anaplecta dark sp. cf. lateralis type.

Cue from dead banana leaves. Ne-

blattella sp. 3 ♀: Same as abm.

Neblattella dark lined ♀. Same as

abm. Panchlora sp. 1 ♀ Same as

abm. Neblattella luteola 1 sp.

snapt from bushes & vines.

Alchetotetix sp. from wet spot in  
potrero. Erphucella 1 ♀ from grass

along road. Casimira juv. in  
grass and weeds among bananas.

Microplus juv. 1 in grass.

Crochus common in bushes and  
vines. Encyphalus 2 species

in ditto, also grasses. Symphyl-  
xiphus sp. Numerous in grasses

on roadside. Anaxipha a straw  
colored species and a dark



limited species in bushes along roadside.

$$620 + 46 = 666$$

$$\text{Aethus } 1179 + 76 = 1255$$

1927. 22 Same as 1927. 21  
but at night at light at house.

666

$$\text{Aethus } 1255 + 9 = 1264$$

1927. 23 Same as 1927. 21 but  
VIII. 10. Elev. same. (R.)

Collecting along edge of forest, in  
forest on hill slopes, in bromeliads  
(few), in <sup>dead</sup> heliconia leaves and similar  
situations, also grass land.

Pezomachus 1 juv. from ground trash  
in forest. Neoblattella sp. (as yesterday)  
a number from <sup>dead</sup> heliconia leaves in  
forest. Large immat. Blattid with  
dark median stripe, same habitat.  
Small ♀ immat. Bombus-like mantis  
beating forest low growth. Macro-  
mantis 1 ♂ in morning on wet  
at house. Calynda 1 large ♂ walking  
on bare <sup>horizontal</sup> ~~root~~ of large tree in open  
cleared land - standing high in its  
legs. Paratettix small on forest  
floor. Cremastax 1 ♀ beaten from

forest undergrowth. Usmilia 1 ♂  
 on edge of forest. Rhachicnaga  
 on forest foliage, <sup>ads. & juv.</sup> pair of large  
 green Pseudophylli (prob. Bliastes  
 or Priates) beaten from <sup>dead</sup> Heliconia  
 leaf. White-faced gryllid 1 juv. beaten  
 from dead Heliconia leaf. Ectostypa  
 like sp. 1 ♂ ditto. At least 3 species  
 of Anaxipha, one with exceptionally  
 broad tegm. in male, all swept  
 from low forest foliage or beaten  
 from dead Heliconia leaves. Beautiful  
 ♂ megopterid, beaten from dead Heliconia  
 leaves. Ripipteryx, yellow-  
 bodied & orange legged species, one  
 swept from low forest - one in forest.  
Anapl. malisignata 1 in Heliconia leaves.

$$666 + 42 = 708$$

$$\text{Others } 1255 + 71 = 1326$$

Same: at night.

Epilampra colombiana 1 spec  
 resting on screen net of  
 dining room. Epil. abdominalis  
 on wall. Pamb. at table.

$$708 + 3 = 711$$

$$\text{Others } 1326 + 2 = 1328$$



1927.24 Same as 1927.22 but  
VIII.12. Elev. minimum for  
Pajonale. Through bananas,  
in leaves of same, along train  
way cut into forest and in  
undergrowth in same forest.  
1 juv. coming from banana leaves.  
Neoblattella nahua 3 from same.  
Neoblattella same sp. as taken before,  
same situation. Neoblattella

♂, like a small nahua, a number  
of both sexes from banana leaves.  
All juv. Neoblattella from banana  
leaves. Anaplecta aequalisignata  
from forest undergrowth and  
hanging dead leaves, etc. in  
same. Panclonia 1 ♀ from dead  
banana leaves. Pseudophasma  
menis 2 ♂ flying over grass and  
weeds in bananas. Echetotettix  
1 juv. from bare ground. Aspilota  
common in bananas and  
more open portions of forest,  
ads. & juvs. Crochus largest  
species, 1 ♀ in forest undergrowth.

Crochus smaller species, very  
common in banana groves &  
in more open parts of forest.

Microcephalus trisp (?)

1 ♂ in two woods in bananas.

Microstylpteryx fusiformis 1 ♂ 1 ♀  
in bananas (1) & in open area in  
forest (1). Leptomerinthoprora

1 in bananas. Metrypa like pyllid,  
1 ♂, 1 ♀ in forest, ♀ under dense  
corr. Smaller pyllid with a few

pale-edged tegmina, 1 ♂, 1 ♀, in  
two forest corr. Anaxipha  
♂ broad tegmined, 1 ♂ in forest  
undergrowth. Anaxipha black  
sp. with banded caud. fem. 1 ♂ on  
forest floor in heavy shade. Anaxipha  
pale mottled in banana areas  
in two woods and forest edge.

$$711 + 66 = 777$$

$$\text{Others } 1328 + 25 = 1353$$

---

June P.M.

Along roadside & in banana  
patches.

1 Litia curvicauda (?) from a banana  
blossom. 1 Meteorus rufoficeps




Mottattella 1001, as before, from  
 dead banana leaves. black lined  
Mottattella 10 + ♀, same situation  
Epil. abdimen-nigrum 1 ♂ 1 juv. from  
 under a fallen banana bunch. Acro-  
blatta luteola 1 ♀ shaken from dead  
 banana leaves. 1 juv. Eutillid  
mantis shaken from same. 1 ♂  
Calypda beaten from mass of overhanging  
 twigs and branches on cut bank.  
Allotettix 1 spec. swept from grass  
 among bananas. Ochetotettix sev.  
 ditto. Urophidella 1 in roadside  
 grass. Schistocerca malachitica  
 type - one in roadside vine and  
 bush tangle. 2 spec. of Conocephalus  
 in grass and vines along roadside.  
Symphyleptus numerous in ditto.  
Cyrtoxipha, pale green species, beaten  
 from ditto. Anaxipha dark lined  
 and pale mottled sp. ditto.

$$777 + 39 = 816$$

$$\text{Others } 1353 + 44 = 1397$$

1927. 25 Same as 1927. 22 but  
VIII. 13. Elev. for unkh Pijivalle  
maximum. In forest back of  
house. Beating in openings, along  
trail, sweeping low spots, shaking  
vines, dead guaranos - heliconia  
leaves, stripping bark & exam. dead  
wood.

1 Pyrausta fuscata under bark on  
cut log. Anaplecta mex. Type  
small beaten from vines and dead  
leaves. 1 Anapl. analis justa me  
ditto. 1 " of lateralis type,  
ditto. 1 " of large size, dark  
color, species new for season, we  
similarly beaten. Neoblattella  
of sex & sub. plate, 4 from hanging  
vines, dead leaves & roots - Neoblattella  
new to trip, with prim. dish outlined  
in dark & ♂ sub. pl  one  
beaten from dead leaves. 1 juv.  
Xestoblatta under log on ground, search  
~~search~~ failed to reveal adults.

• Capucina putula 3 juv. under  
bark of stump. Pseudophasma  
minius 2 flitting through forest.



Emmastoid 1 ♂ on foliage -  
very green in life. Usmilia  
a few ads & juvs. in forest, 1 juv.  
taken. Rhachicreagra <sup>in forest</sup>  
1 ♂ on forest foliage in sunlight hole.  
Crophus - long species - 4 seen  
- taken on forest low foliage - 2 in  
brown phase. Pyrgocorypha 1 juv.  
♂ in instar preceding maturity,  
~~hopping~~ <sup>jumping</sup> on forest ground cover.  
Aphenomorphus 1 ♀ on low forest  
ground cover. 1 ♂ light green  
Cyrtixipha or Anaxipha, prominent  
markings reddish, on large leaves of  
undergrowth. 2 other species  
of Anaxipha, same habitat.  
Immature psyllids of several species,  
all on ground cover in forest.

$$816 + 39 = 855$$

$$1399 + 33 = 1430$$

---

Same day - afternoon.

In banana grove, working in  
dead leaves. Technoptera

Neothattella rubra 9 ♂ 9 ♀ from  
dead banana leaves. Neothattella  
smaller species, 2 ♂ from same.

Truxalis brevicornis juv. small instars  
in grass along stream. Neomorphulus  
sp. beaten from dead banana.

lunum. Cephus from grass along  
stream.  $855 + 25 = 880$

Altus  $1430 + 3 = 1433$

1927. 26. Between Monte Redondo  
Aug. 18. 1927.  
& Sabaniillas, Costa Rica. Elev. approx.

3000 feet. Sumping along trail at  
a brief halt. (R. & L.)

1 Pseudophyllorhina on foliage. Acronyctus therpis sur from vine

1 Cephus on weed. juv.

1 Dhamnosirtus (same one leg)  
on leaves. Colpophan in weeds.

$880 + 8 = 888$

Altus  $1433 + 2 = 1435$

1927: 27 Betw. Sabaniillas & Pozo  
Azul, C. R. (Really betw. former  
& largest stream crossed - 1/2 way). Elev.  
approx. <sup>3600-</sup> 2000 feet. Aug. 18. 1927. (R. & L.)

Pseudophanema distinct species.

2 ♀ in foliage.

Schistocerca zapoteca type

1 in open spot.



1 Crochus in heavy forest in foliage.

1 Crocharis type ditto.

$$888 + 6 = 894$$

$$\text{Others } 1435 + 1 = 1436$$

---

1927. 28 Pozo Azul de Peris,  
Costa Rica. Aug. 18, 1927. At  
night in house. (R.)

Archimandrita six in chinks in  
walls. 3♂, 3♀. Microcentrum

philaman (?) Attracted to light.

Imbricaria sp. 1 attracted to  
light, one hiding behind a loose  
board. Anaxipha - dark species -  
attracted to light.

Plusia attracted to light.


$$894 + 15 = 909$$

$$\text{Others } 1436 + 13 = 1449$$

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1927. 29 Same as 1927. 28  
but VIII. 19 in forest & about  
house clearing. (R.)

Pseudophylloderma in fair  
numbers in dead guano and  
Heliconia leaves.

Neoblattella sp. ♂ sub-pl. 

as Pseudophyllodromia juv. also taken.

Blattella sobrina quite numerous (♂♂) in guano + heliconia dead leaves. sev. juv. taken.

Epilampra azteca type. One running on ground in forest. Paratettix sev. on bare ground in small areas in the forest - heavy shade.

Cremastax 1 sp. on foliage.

Acumilia common in the more open areas in the forest - about house.

Sititettix rare in the more open areas in the forest. Juv. also seen & taken.

Leptomermithoprora sp. found in forest on foliage.

Prindlopha juv. only on foliage & in low brush about house.

Graphus sp. One in forest on foliage.

Chiropterus sp. One at edge of small clearing near house.

Chromacris trojan One in forest foliage.



~~Look~~ Coccinatus sp. Same as taken  
last evening. Three from dead  
heliconia leaves and rolled fresh  
ones.

More slender brown pseudophyllid. 2  
from rolled fresh heliconia leaves.  
Green pseudophyllid. 2 taken  
ditto.

Neococephalus ads. + juvs. in low  
growth in forest and about house  
clearing.

Conocephalus several in forest  
undergrowth.

Large phalangopoid cricket(?) hopping  
in muddy trail.

Large Pterocanthus or Archaeis like  
flyllid. 3 ads. + 1 juv. from  
dead heliconia leaves + guano  
leaves.

Hyperbaenus 2 from foliage  
in forest.

Empotera juvs. abundant in  
clearing on low cane.  
Minute Nemobius-like sp. ♂ + ♀  
on foliage in heavy forest.

Large Anaxipha (new to me) blue forest foliage.

Anaxipha - species taken last night - numerous on forest foliage.

$$909 + 102 = 1011$$

$$\text{Others } 1449 + 40 = 1449$$

Same P.M.

Male Bostra in brush foliage near house. Scania on foliage directly in front of house. Amastax + Asmilica ditto. Blorn, Pamphila and Anaxipha at light at night. Nyctibora juv. running on floor of house at night.

Moth + beetle at light at night.

$$1011 + 17 = 1028$$

$$\text{Others } 1449 + 12 = 1461$$

Amnicoris in foliage in front of house.  
? Prionolopha juv. ditto

1927. 30 Same as 1927. 29 but  
VIII. 20. 1927.

In cleared brush in front of house and in adjacent forest to north for a short distance.



Anaplecta solidly dark species. - one  
shaken from hanging dead guarumo  
leaves. Anaplecta n. sp. of Mexican  
group. 4 ditto.

Pseudophyllodromia ditto.  
Hemidromia common in ditto.

Moblattella same sp. as yesterday, less  
numerous in ditto.

Moblattella sp. with asymmet. subg. pl.  
1 in ditto.

Litopeltis (?) 2 immat. juv. in ditto.

Paratettix several in bare spots in  
forest.

Scania a few in foliage.

Silvitettix one ♀ in low brush at  
edge of forest sunlight hole.

Cumastax uncommon in low  
brush foliage on the edge of and  
in sunlight holes in forest.

Amnicoris not uncommon ditto.

Usimilia common, ads. & juvs. in more  
open places.

Lysocaphus 1 ♀ on foliage on edge of  
Helicoptus 1 ♀ in cut scrub.

Chromacris Brown 1 ♂ in low  
brush in front of house.

Colpolopha 2 ♂ ditto.

Cerophus 1 ♂ in forest undergrowth

Neocoenophanes ♂ & ♀ in more open place near rim.

Phlegis uncommon in low growth, particularly where vines are numerous.

Parocanthus sp. 2 large ♀ from dead guarumo leaves.

Eucoptera surinamensis Juss.

very abundant in more open places. 1 juv. taken.

Orange. black legged Eucopterid. -

1 ♀ from dead guarumo leaves.

1 juv. black & white pyllid (near Ectocnus) swept from foliage.

Phyllocirtus both sexes of beautiful species from foliage in open spots. Juss. also.

Hennotus - like type. From forest undergrowth - rare.

very large ♀ Anaxipha - 1 from dead guarumo leaves.

Band-legged Anaxipha uncommon on low ground foliage.



Small Anaxipha with dark  
wing tips - numerous in foliage  
in forest, particularly low &  
fresh.

Cycloptilum 1 ♀ from dead  
gramineae leaves.

$$1028 + 100 = 1128$$

$$\text{Uthrus } 1461 + 49 = 1510$$

Same P.M. at light at house.

1 Anaplecta lateralis type.

1 Chorisomena.

1 Epilampra azteca

1 ♂ Vat ✓.

Anaulacomera alfaroi Semal.

" laticauda Semal.

Scheddia paronae 1 ♂.

1 Large Anaulacomera diff. sp. ♀.

1 Turpilia with dark mark on  
pronotum.

1 Holihocercus latipennis ♂

Small species of Anaxipha.

$$1128 + 37 = 1165$$

$$\text{Uthrus } 1510 + 38 = 1548$$

1927. 31 Same as 1927. 30 but  
VIII. 27, 1927.

On foliage and in bush on  
forest edge about house and  
for a very short distance up  
trail.

Pseudophyllodromia on foliage.

1 ♀ Hemidictya (h.) " "

Immat. liturgosa running on bark of  
tree.

Paratettix several on low bush leaves.

Scania one on foliage.

Eumastax not rare in bush foliage -  
very active. One pair in cortex.

Chlorophus rare on bush foliage -  
hiding low down on twigs.

Amnicoris frequent on ditto.

Inusia one on forest foliage.

Stenotettix rare on forest foliage.

Chrysops cratichneumon uncommon  
and active on foliage in sunlight  
hole.

Taeniophora sp. One foliage  
on forest edge - very active - was  
escaped.

Rhincoderma - new species with



white lateral spots - one ♀ in  
forest foliage. Spots very con-  
spicuous (L.).

Leptomermithoproa brevipennis  
1 ♂ 1 ♀ in forest foliage

Celipotopha 2 ♂ on bush in  
clearing

Aspilota abundant everywhere -  
ado. & green & brown juvs.

Chromacris hugoni found from  
foliage in forest clearing.

Theidronotus rosulentus 2 ♂ & 1 ♀  
ditto. very active - flying long  
distances.

Chorophus numerous on low  
foliage in clearing and in  
forest.

Gnathocneme - large species -  
1 ad. ♂ 1 juv. from dead heliconia  
leaves.

Coccinotus sp. On forest  
foliage.

Large brown pseudophyllid with  
slender form, 4 from dead heliconia  
leaves.

Scoparius 1♀ from forest foliage.

" diff. sp. 1♂ from Heliconia  
leaves in forest.

Neomochphalus 1♂ from bush  
foliage in house clearing.

Anaulacomera 1♀ from forest  
foliage.

Phlegis sp. 1 from ditto.

Gryllacris large winged sp. 1♀  
surpt from forest foliage.

Parocanthus diff. sp. 1♂ on  
forest foliage.

Phyllocnistis 1♂ from ditto.

Anaxipha 1♂ " "

$$1165 + 60 = 1225$$

$$\text{Others } 1548 + 16 = 1564$$

Same P.M.

Latindia - small amphiacustine  
gryllid under dead wood.

Chlorophus, Cermitia and

Paratettix in forest undergrowth

$$1225 + 7 = 1232$$

$$\text{Others } 1564 + 9 = 1573$$

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1927.32 Same as 1927.31 but  
night at light.

$$1232 + 12 = \overset{1244}{\cancel{1232}}$$

$$\text{Uther } 1573 + 17 = 1590$$

1927.33 Same as 1927.31 but  
VIII.22.1927.

In forest on slope to North, going  
up probably 200 feet above  
P.A. elev.

Blutoblatella num. in <sup>dead</sup> heliconia

+ guarumo leaves. Pseudophyllo-  
dromia on undergrowth foliage.

Neott. nabea from dead heliconia

+ guarumo leaves. In Neott. same.  
hitopeltis sp. s.g. pl. from guarumo.

heliconia leaves.

Scania from undergrowth foliage.

Parocanthus from rolled  
heliconia leaves.

Anaxipha on foliage.

Crochus on foliage.

Laysa gonrocensis in rolled  
heliconia leaves.

Coccinellus from same.

More slender ~~phylloph~~ pseudo-  
phyllid with pale medio-  
long. line from same.

Leptomericithopora brevipes  
uncommon in foliage.

Amastax numerous some  
mature, on fruit/foliage.

Scopionus a few in rolled  
Heliconia leaves - sev. juv.

Chloroscirtus preps 1 ♂ resting  
on broad leaf of <sup>the</sup> same plant.  
Neocoeloccephalus one ♂ on low  
ground corn.

Eriolus sp. 1 juv. from rolled  
Heliconia leaves.

Chromacris a few in foliage.

$$\begin{array}{r} 1244 \\ 1235 \\ \hline \end{array} + 74 = 1318$$

$$\text{Other } 1590 + 24 = 1614$$

Same, at light at night.

1 Sudderia paronae flew on  
veranda.

1 Holichocerus ditto



1 Heterogryllus sp. on tree  
trunk near house.

1 Scania on veranda.

3 Gongrocercus on veranda.

$$1318 + 8 = 1326$$

$$\text{Cottus } 1614 + 12 = 1626$$

---

1927. 34 Same as 1927. 31 but  
VIII. 23. 1927.

In forest undergrowth and in  
sunlight spots, also along shores  
of Rio Parrita.

Pseudophyllodromia a few in  
dead Heliconia leaves.

Blendrottatta num. in dead Guarumo  
leaves.

Neotattella ♂ a few in dead  
Guarumo leaves.

Encoptera juvs. numerous in  
more open spots.

Paratettix on barer spots along  
trail.

Chlorophus a few in cut  
scrub.

Paracanthus 1 in dead Guarumo  
leaves.

2 species of Anaxipha from ditto.

Colpolopha 2 ♂♂ in top of  
a dead guarumo leaf, 1 ♀ in  
low growth.

Uromilia adults & juvs. very  
common everywhere - a number  
of juvs. taken to show dicromatism  
in juvs.

Chumatolampis (?) striking species  
1 ♂ on forest foliage near river.

Acrophus a few on forest foliage.

Amnicoris 1 on

1 minute but adult Ripipteryx -  
quite distinct - along sandy  
shore of river - could find no  
more by search.

White faced encyrtid - 1 ♀ from  
dead guarumo leaf.

very large Euacris or Hiarthon -  
green, 1 ♀ spread out on large  
leaf of low bush in early  
morning.

Large Gnagrocenus from sw.



situations, as in dead guarumo  
leaves, in curled new  
heliconia leaves, but mostly  
from one single plant of long  
soft but spiny edged Agave,  
where they had congregated.  
adults & juvs. at base of  
leaves.

Coccinellus. Exactly same  
comments as for Coccinellus.

Slender brown pseudophyllid  
from guarumo leaves and  
unrolled heliconia leaves.

$$1326 + \frac{28}{14} = \frac{1326}{14} = 1400$$

$$\text{Uthus } 1626 + 28 = 1654$$

Same P.M. at light.

1 Dich. rufa group - one at lamp.

1 Epil. apoca running on floor.

2 Archimand. On wall of house

1 Juv. Pitangusa running in  
bark of tree stub.

3 ♂ Uates attracted to light

Paratettix attracted to light.

One juv. Hyperbaenus on dead  
brush.

Everything else attracted to  
lamp. - Emilia, Coccinellus,  
Anaulacamera alfaroi, Dusara,  
Orophus, Lania & Anaxipha.

$$1400 + 29 = 1429$$

$$\text{Other } 1654 + 37 = 1691$$

---

1927. 35 Same as 1927. 31 but  
VIII. 24. 1927.

Most work, undergrowth, foliage,  
etc.

Hendrobatta & Anaxipha from  
dead Heliconia leaves. Paratettix  
from ~~the~~ bare areas in trails.  
Chiropterus few in brush in open.

Amnicoris sp. ♂ & ♀ on foliage.

Bostra ♀ swept from hanging  
vines.

Trachomimus ♂ from  
♂ broad leaved low growth (A.)



Brown pseudophyllid 2 ♂  
from dead heliconia leaves.

Emmaetax from foliage.

Scoparius from unrolled  
heliconia leaf.

$$1429 + 21 = 1450$$

$$\text{Other } 1691 + 6 = 1697$$

Same at light at night.

1 Angela ♂ came in house  
to light.

1 juv. Archimandrita in <sup>juv. Amph.</sup> <sup>in bark of</sup> <sup>tree.</sup>  
house.  $1450 + 3 = 1453$

$$\text{Other } 1697 + 0 = 1697$$

1927.36 Betw. Rio Colorado +  
Sabarilla, Costa Rica.  
Elev. 1500-3940 feet. (R. + L.)  
Aug. 25. 1927.

Emmaetax from leaves.

Rigorousa from tree trunk.

Pseudophasma flying across  
trail. ~~On~~ Eriolus from  
foliage. [Rio Colorado]

Brista [Rio Colorado] swept  
from foliage + vines.

1453 + 5 = 1458  
Others 1697 + 2 = 1699

- 1927. 37 Sabaniillas de  
Perrio, Costa Rica. 3940-  
4200 feet. VIII. 26. 1927. (R.)  
Sweeping along roadside, in  
strips of forest, in potreros and  
vines & in bromeliads.

Anisotaxis annulipes (?) Two taken  
from bromeliads in forest.

Pseudophyllodromia large species  
numerous on low foliage on  
roadside & in forest.

Pseudophyllodromia short species.  
One taken with other species.

Anaplecta flabellata type. One running  
on low foliage.

Neoblattella diff. species. One swept  
from vines.

Stagmomantis juv. One swept.

Bush sp. 1 General ♀, badly  
broken, swept from vine  
tangle.



Silvettia communis ♂ & ♀ numerous  
in lawns & bushes along road-  
sides - all adult. Pupa greenish to  
<sup>palpi of body</sup> Cephalothrips a few in same situations.  
Reptomis thapsora ditto. One  
pair in coitu.

Inana 1 ♀ swept from vine  
tangles.

Scopiorus distinct species,  
adults. juv. occasionally but  
secured only by steady system-  
atic beating of vine tangles and  
overhanging branch foliage.

Stelpuochlora juv. from foliage.

Gugroenensis juv. from large  
water containing bromeliad.

$$1458 + 52 = 1510$$

$$\text{Others } 1699 + 60 = \del{1659} 1660$$

at night - same place  
& date.

1 Nyctitrua juv.

$$1510 + 1 = 1511$$

$$\text{Others } 1660 + 2 = 1662$$

1927. 38 Along Rio ~~Sabo~~ Candelaria  
a short distance upstream  
from Sabmillas bridge, Costa  
Rica. Elev. 1500 feet (aner.)  
VIII. 27. 1927. (R. + L.)

Aidemona a few in grass

Orphulella ditto.

Paratettix on bare road.

Pseudophyllodromia <sup>small</sup> + short-  
winged Anaplecta like ones +  
trapped from foliage.

Juv. Mimotia ditto

" Pseudophyllid from agaric.  
1511 + 7 = 1518

Others 1662 + 10 = 1672

1927. 39 San Ignacio, Costa  
Rica. Elev. of coll. pt. about  
3500 feet. VIII. 27. 1927. (R.)

1 Colpolopha diff. species in  
low foliage.

1578 + 1 = 1579

1927. 40 Monte Piedras,  
Costa Rica. Elev. 4000 feet.  
VIII. 27. 1927. (R. + L.)



1 Anaulacomera at light.

1 juv. Eurycotis, running on  
flwr.

$$1579 + 2 = 1521$$

$$\text{Others } 1672 + 1 = 1673$$

1927.41 Oricuajo (R.R. Sta  
Jesus Maria), Costa Rica.

Elev. 150 m. VIII. 31, 1927. (R.-T.)

Collecting in potreros and in  
weeds and heliconia patches  
on cleared ground.

Blown liviana 1 ♀ beaten  
from tree foliage.

Earning gen. sp.? Black fibrac  
litter.

Short-winged Probatuloid, both  
sexes and several stages of juv.  
taken from dead heliconia leaves.

Anaplecta large dark sp. Beaten  
from tree + vine foliage.

Black Eurycotis, ad. ? T. beat  
it from dead heliconia leaf.

Stag Chorismeria 1 ad. from  
ditto.

Punctura 1 swept from vine  
foliage.

Stagmomantis sp. juv. juv. - beaten  
from tree foliage.

Acanthothespis 1♀ beaten from  
tree foliage.

Paratettix from mud areas in road.

Tettigidea ditto.

Cerphylla common, ad & juv. in  
coarse grass.

Musia several juv. swept.

Usulicia a few ad. in brush.

Schistocerca 1♀ in brush.

Aidemona a number in grass &  
brush.

Coccothrips diff. sp. 1 pair from  
dead heliconia leaf.

Gongrocampa diff. sp. 1 from  
same leaf.

Conocéphalus abundant, chiefly  
juv. in grass.

Ripipteryx same habitat as  
tettigids.

Green Anaxipha, 1♂, 2♀ beaten  
from tree foliage.



$$1521 + 80 = 1601$$

$$\text{Others } 1673 + 111 = 1784$$

Same loc. + date.  
At night.

In house on walls.

Blendroblatta sobrina ad. + juv.  
numerous.

Panochla 1 ♀ on wall.

Protobia sp. 1 ♂ on wall.

$$1601 + 16 = 1617$$

$$\text{Others } 1784 + 4 = 1788$$

1927. 42 Same as 1927. 41  
but 1X. 1. 1927.

Collecting along R.R. track,  
under cacao trees with banana  
shade, along bank of Rio Machuca  
and in various situations en  
route.

Blorn lineare swept from grass,  
tree foliage + bushes. Ad. +  
juv.

Latia curvicauda 1 ♂ from dead  
banana leaves.

Geracid. 2 ♀ (T.) from under  
bark of fallen tree.

Proctotylla sp. simple ♂ subg. pl. In  
dead banana leaves - a few beaten  
from foliage.

Euthlastoblatta 1♂ from dead  
banana leaves.

Stagmomantis juvs. Beaten from  
foliage.

Leptoclella numerous in grasses.

Leucocrotes holleyi. 2♂, 2♀ sw.  
juvs on ground in dead  
leaves under cacao except 1♂  
taken from tall grass along  
Rio Machuca.

Colpolopha sp. In cacao grove in  
trash, etc. a few.

Aidemona rather generally  
distributed - common.

Apshomala sp. 1♀ (T.) from  
tall grass along Rio Machuca.

Asmitia - like Aidemona.

Anaulacamera laticauda 1♂ 1♀  
beaten from low bushes.

Microcephalus 1 ad. ♀ in  
low ground cover.



Emmephala sp. In certain  
grass patches common, ad. &  
juv.

Gyllenus 1 juv. ♀ swept from  
bush foliage.

Pygromembris } From dead banana  
Ciconotus } leaves, usually  
found associated

Heterogryllus on ground trash in  
cacao grove.

Parnanthus add. sp. 1 ♂ 1 ♀ from  
dead banana leaves.

$$1617 + 132 = 1749$$

$$\text{Others } 1788 + 134 = \cancel{1892} \\ 1922$$

Stagmomantis nahua 1 ♀ swept  
from vegetation along R.R. track.

Cibotopteryx variegata 1 ♂ taken  
in forest by bridge keeper  
juv. Vilerna swept from grass along  
R.R. track

1927. 43 Same as 1927. 42  
but at light at night.

Pantala on wall of house.

Neuroblatta " " " "

Euthlastoblatta flew in to lantern

$$1749 + 4 = 1753$$

$$1678 + 22 = 1700$$

1927. 44. Same as 1927. 42 but  
Sept. 2, 1927.

Work in old field, with scattered  
trees & wine palms, in low  
ground corn under trees, in  
sand about heliconias and in  
first edge.

Homocidus Beuten from foliage  
of trees & heliconias.

Anaplecta swept from foliage.

1♀ Neoblattella sp. " " "

Chorisoneura, white lined, 2 swept  
from tree foliage in open.

Stagmomantis valua 1♀ from  
tree foliage in open.

Strange an. unmat. mantid, swept  
from very low ground corn. Running  
ant-like on leaves - very remarkable!



Tettigidea 1 swept from wet, bare ground.

Cerphrallia num. ads. & juvs. generally dist. trib.

Cemilia ditto, same data.

Aidemona ditto, all ads.

Rhinoderma dull brown sp. 1 juv. ♂ sitting along stem of Heliconia.

Rhinoderma, with transverse pale band, 2 ♂, one juv. from Heliconia area, in leaves.

Limnodynastes biolleyi 1 ♂ in Heliconia leaves.

Phyllosia a few ads. but many juvs. generally dist.

Apiphora 1 juv. ♂ swept from tree foliage on forest border.

Mezura 1 juv. in low ground cover under scattered trees.

~~Coccinella~~ Gymnocnemis 1 ♂ in rolled Heliconia leaf.

Green Anasipha & sm. brown ditto on Heliconia leaves and in low ground cover. ♂♂ & ♀♀ former very scarce, but one seen & taken.

Nitrogyllus a few in low  
ground cover

Parocanthus a few in heliconia  
leaves.

A very slender fly like, ♀, resembling  
the Oriental Eucirtus - one  
swept from low ground cover  
under scattered trees in open.

$$1753 + 59 = 1812$$

$$\text{Others } 1950 + 98 = 2048$$

Same P.M.

Working along RR. right of way and  
in cacao, in banana leaves, trash,  
etc.

Neoblattella ♂♂ + ♀♀, ♂ simple subg.  
plate, numerous in dead banana  
leaves, a few beaten from tree  
foliage.

Raviblattella sp. 1♀ from dead  
banana leaves.

Short-winged Litopeltis-like  
thing & small, one from ~~same~~  
tree foliage.

Chorionura large sp. One  
beaten from tree foliage.



Chorisoneura - white-lined. Beaten  
from tree foliage and from dead  
banana leaves.

Stagnomantis nahua 1 juv. beaten  
from bush vegetation.

Museina <sup>viridis</sup> - like maritima. One ♂  
beaten from low bushes.

Tettigidea 1 ♂ found sweeping.

Paratettix " "

Alphulella several.

Casmilia "

Inusia 1 ad. & 1 juv. swept from  
tall coarse grass.

Aidemana several.

Leucorhina 1 juv. ♀ swept from  
low ground corn.

Neocnecophalus 1 ♀ from dead  
banana leaf.

Gnagrocnemis a number in ditto.

Amnecanema 3 ♂ 1 ♀ swept  
from low ground corn and  
low bushes.

Phylis in low ground corn.

Schistocerca 1 taken from

tree trunk.

Anaxipha swept from ground corn.

Picrocanthus from dead banana a  
leaves.

Cycloptilum 1 ♂ from tree trunk.

Concoptera sericea. numerous juv.  
in ground corn under cacao.

$$1812 + 70 = 1882$$

Caters  $2048 + 47 = 2095$

1927.45. Same as 1927.44 but  
at light at night.

Panchlora sev. on wall of house.

Acontiotheopsis 1 ♂ came to light.

Stagnomantis rubra type 1 ♂  
came to light.

Stagnomantis ~~rubra~~ indraguna type  
1 ♂ ditto.

Phlugis + Anaxipha ditto.

$$1882 + 8 = 1890$$

Caters  $2095 + 23 = 2118$



1927. 46 Atalanta Farm, Estrella  
Valley, Costa Rica. Elec.

IX. 7. 1927. (R.)

Collecting in dead banana leaves  
and sweeping ground in ~~at~~ banana  
plots.

Mollatella nahu not common in  
banana leaves.

Mollatella 3 other species, in  
relative abundance as represented  
in the series, all in dead banana  
leaves.

Epilampra cytea one in banana  
leaves, one flew on train car.  
Small insect. Mottled with pale  
lateral borders, in banana leaves.  
Small pygmy-like mantid,  
2 juvs. 1 swept from low ground  
corn, the other from dead banana  
leaves.

Walking stick - near Xeromma 1 juv.  
swept from ~~the~~ low corn in ground.

Truxalis benesim ad. ♂ & juv.

ditto.

Usmilia numerous in ground  
corn.

Taenioptera reticulosa 1 ♂ under  
banana on ground corn. All  
seen.

Microtylopteryx talamancae  
not common in low ground corn,  
in foliage.

Scudderia sp. 1 in low bushes,  
in pt.

Neurocephalus sp. ♂ + ♀, 1 from  
dead banana leaves, others in  
low ground corn foliage. Num. juvs. also.

Encephalus sp. Not common  
on ground corn.

Gnathocentrus add. sp. 1 ♂ from  
dead banana leaves.

Phlegis sp. 1 swept from low ground  
corn.

Anaxipha sm. species. Swept from  
low ground corn.

Anaxipha large sp. 1 ♂ ditto.

Symphylorhynchus sp. Ad. & juv.  
Swept in a very restricted area  
of low ground corn.



1890 + 120 = 2010  
Others 2118 + 48 = 2166

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1927. 47 N. end of Surotha  
Trail, near Atalanta Farm,  
Eschella Valley, Costa Rica.  
IX. 8. 1927. (R!)

In heavy forest along Hurray River.  
Sweeping, beating, etc. Forest  
much like that above Uesta Farm.  
Infructid juv. swept from low  
undergrowth.

Microtettix uhua Small from  
platanillo leaves.

Epil. azteca type. Small ditto.

Hymenoptera sp. 1 ♂ beaten from  
bush.

Walking stick s. juv. - sp. ? ditto.

Paratettix sp. On bare ground near  
water puddles.

Large tithid. ditto.

Crematogaster sp. On foliage in  
fair numbers.

Myrmica minutula One in  
forest foliage.

Al. bimaculata In fair numbers  
on ditto.

Rhachiocampa sp. One ♂, 1 ♀,  
+ sev. juvs. on fruit + fruit.  
Scarce & active.

Uremia numerous.

Sphynotopum sp. 1 juv. on  
fruit foliage.

Orophus Numerous.

Neomorphalus a few on low  
ground and in dead leaves.

Gyllalis 1 juv. in dead  
leaves.

Copiphora cultigera 1 ♀ beaten  
from low foliage.

Copiphora diff. sp. 1 juv. ♀  
ditto.

Scopionus sp. 1 ♂ 1 ♀ from foliage  
(beaten).

Brown pseudophyllid, 1 ♂ 1 ♀  
beaten from foliage.

Pucca ad. & juvs. numerous,  
as juvs. on low foliage, ads.  
very scarce.

All 4 sp. of Anaxipha on  
low foliage.



2010 + 76 = 2086  
Uthus 2166 + 35 = 2201

---

1927. 48 Same as 1927. 46  
but 1 X. 8.

In dead banana leaves, beating  
in cane brake and in small  
areas of weed grown plots.  
2 species of Moblatella, both from  
dead banana leaves. Virtually all  
seen taken. Paratettix a few  
on bare spots of soil.

Scopinus & Scapt from tall weeds  
& vines. Microcephalus sp 2  
ditto. Microcephalus sev. ditto.  
~~Phy~~ Symphloxiphus from weedy  
lot. Anaxipha from tall weeds.

2086 + 48 = 2134

Uthus 2201 + 22 = 2223

---

1927. 49 Same as 1927. 47 but  
1 X. 9. 1927.

1 juv. Epilampra swept from foliage.  
Heavily-built tettigid swept from  
ground in muddy road, with many  
pools of water.

Microtylopteryx talamae occas.  
on forest foliage.

Pseudophyllodromia 1 swept from  
foliage of undergrowth.

Rhachicnagra sp. Occasionally taken  
on forest foliage.

Emmastax sp. ditto.

Copiphona long spined species 1 ♂, 1 ♀  
taken. One in calla-like leaf rolled,  
other swept from low corn.

Brown Scopiarid-like pseudophyllid  
One from rolled calla-like  
leaf.

Large brown short-winged pseudophyllid  
ditto.

Green immature pseudophyllids.  
swept from low foliage.

Ponca numerous in ground  
corn, immatures predominating.  
Active.

♂ Green Anaxipha, two swept from  
low foliage.

Short segmented brown peculiar  
cricket & brown immature cricket  
with annulate antennae  
swept from low corn foliage.



Brown Anaxipha ditto.

Periplaneta brunnea 2♀♀  
taken at Atalanta House,  
IX. 8. 1927. in domo.

$$2134 + 56 = 2190$$

$$\text{Others } 2223 + 9 = 2232$$

1927. 50 Atalanta Farm, Estralla  
Valley, Costa Rica. IX. 9. 1927. (R.)

All three species of Periplaneta  
indom in the house in the  
morning.  $2190 + 4 = 2194$

$$\text{Others } 2232$$

1927. 51 Same as 1927. 46 but  
IX. 10. 1927

Exactly same type of  
work & habitats.

1 Pseudophasma diff. species  
flying in banana.

Microglopteryx talamancae  
occas. in low ground corn  
in banana grove.

Small mantid, a few immatures  
from dead banana leaves.

Clonibia abundant in ground

com.

Banded-legged Anax ipha -  
one swept from ground near  
straw-colored Anax ipha - one  
ditto.

Pitopeltis 1 ad. ♀ & 1 juv. shaken  
from dead banana leaves.

Pseudophyllodromia sp. Occasional  
in dead banana leaves.

Neoblattella nahuia ditto, also a  
juv.

Three smaller species of Neoblattella  
generally distr. in ditto.

$$2190 + 100 = 2290$$

$$\text{Others } 2232 + 38 = 2270$$

1927. 52. Guapiles, Costa Rica.  
Elev. 18. 11. 1927. (R.)

Sweeping in orange orchard, in  
dead banana leaves, in rotting  
banana trunks & in a few  
small bromeliads on orange  
trees.

Psalis americana 1 ad. & 1 juv.  
under rotting banana trunk.

Sarcinatrix anomalia 1 fine adult  
♂ shaken from very small dry  
vine bromeliad on orange. Exclusive



search in many other similar bromeliads failed to bring others to light.

Neobattella sp. 2 ♀♀ + 1 juv. taken from dead banana leaves.

Chorisoneura sp. 2 juv. same as Sarcinatrix.

Lamprodelia (?) sp. 1 apparently adult ♂, but entirely apterous, running under dead banana root.

Paratettix sp. ads. + juv. on banana roots in orange orchard.

Alphulilla punctata a few in orange orchard.

Clavilia a few in ditto.

Taenioptera reticulosa 2 ♂ 2 ♀ seen + taken in orange orchard and on base of a royal palm.

Symphyloxiphus sp. very abundant in frass in orange orchard.

Anaxipha banded-legs. 1 in ditto. All seen.

Anaxipha 3 other species, occ. in ditto. Virtually all swept under taken.

$$2290 + 117 = 2407$$

$$\text{Others } 2270 + 11 = 2281$$

1927.53 Same as 1927.52  
but at night at light on the  
verandas of "Salvador."

1 immat. Richenotus (?).  
on wall.

1 Anaxipha at light.

$$2407 + 2 = 2409$$

$$\text{Others } 2281 + 26 = 2307$$

1927.54 La Emilia, Costa Rica.  
IX.12.1927. (R.)

In forest where work was done  
in 1923. Working sweeping  
low ground, ground sweeping  
heavy beating; platanillo dead  
& alive & other dead leaf work,  
in & under rotten wood.

Spuridex (?), with Lat. tegmina.

1 under dead wood.

Ischnoptera nahuia 1 ad. ♂ & two juv.  
from hanging dead leaves.

Metatettella sp. ♂ ♀ 1 ♂  
from ditto.

Very large sp. of Eurycotis (prob.  
what I called Raupropeltis imm. type)



1 ad. ♀ + 1 juv. under dead wood

Cerys like phaeoid. 1 ♂ swept  
from low undergrowth foliage

Scardia sp. a very few on low  
ground cover.

Paratettix sp. along more open  
portions of trail where ground is  
bare in places.

Emmastid. 1 im-juv. beaten from  
low undergrowth foliage.

Procolpia or Munatia sp. 1 very sm.  
juv. swept.

Rhachiceraea sp. Rare, ads. +  
juv. on low foliage.

Microtylopteryx fus. fumis a few  
ads. + juv. on ditto.

M. hubardi Rare, ditto. local.  
One spot only.

Myraecaris annulata 1 ♀, all  
seen, on low foliage.

Cerophus a very few <sup>ads.</sup> on undergrowth  
a number of juv.

Immature. planiropt. <sup>green</sup> pseudophyllid  
trupt.

Brown immature. pseudophyllid  
shaken from having dead leaves  
and vine draped lianes.

Large, short-winged true pseudo-  
phyllid in curled green heliconia  
leaves.

Paracanthus sp. 1 ♂ in low foliage.

Heterogryllus sp. 1 ♂, 1 ♀ under

low foliage, just above ground.

Ripisteryx sp. (on low foliage on trails in forest)

Metyra very large sp. 1 ♀ shaken  
from dead leaves (hanging).

$$2409 + 58 = 2467$$

$$\text{Others } 2307 + 49 = 2356$$

---

1927.55. Guapiles, Costa Rica.

IX.12.1927. (R.). Sweeping &  
beating along screen of guayabo  
and melastomaceous trees between  
railroad right of way & potreros  
for some distance west of  
station.



Pseudophyllodromia swept  
from low bushes. Minature  
blattid, same. Chorisoneura  
add. sp. from foliage of melastomaceae  
tree. juv. Acontiothespis swept  
from low bushes. Range

♂ Calymna on a very low  
ground bush, not a foot from  
the ground. Paratettix scarce  
on barren spots. Leptomeria thoprona  
a very few in ground cover.

Aryasacris ovatispinis 1 ♂ & 2 juvs.  
all seen, taken. In bush foliage -  
active. Color very brilliant,  
gem-like.

Taeniopoda reticulosa 1 ♂ on  
base of royal palm at Salvador.

Copiphora sp. with long curved,  
spear-like vertex, 1 ♂ in very  
low bushes - not active, taken  
by hand. Pale caudal margin  
of pronotal disk and reddish  
patches on sutural margin of

*Legumin*, also pale spines on  
caudal femora, very pronounced  
in life.

Scopionus sp. 1 ♂ swept from  
bush foliage.

Aphenomorphus sp. 1 ♂ in bush  
foliage.

Anaxipha add. sp. with rugulose  
*Legumin* in ♀, 2 swept from  
bush foliage.

Anaxipha paler sp. ditto (1)

$$2467 + 21 = 2488$$

$$\text{Others } 2356 + 47 = 2403$$

---

1927.56 Same as 1927.53 but  
IX.12.1927.

Neoblattella ♀ in window screen  
at night.

$$2488 + 1 = 2489$$

$$\text{Others } 2403 + 12 = 2415$$

---

1927.57 Same as 1927.54 but  
IX.13.1927.

Work done almost entirely in  
dead leaves, chiefly plataniello,  
flamino of same, hanging dead



vines, dead leaf masses and  
dead platano fronds. Rains a  
large part of time.

Proctos sp. sev. ♀♀ from Heliconia  
blossoms. No ♂♂ in evidence  
Pyrausta sp. 18 ♀♀ from dead leaves and  
hanging weeds & trash.

Anaplecta black sp. 1 ad. & sev. juvs. from  
sitt.  
Anaplecta mexicana type. 1 from same.  
" malicognata 2 ♂ " "

Pentaptyllodromia diff. species. Small  
from platano blossoms & dead  
leaves.

Neoblattella nahua ad. & juvs. in  
dead platano leaves, in dead  
guarumo leaves & in hanging dead  
vines & trash.

Neoblattella sp. ♂ ♀ Much frequent  
in same, also in heliconia flowers.

Neoblattella sp. ♂ ♀ Much less  
evident in same.

Chromatomotus sp (dark dorsum)  
a few in dead vines & tangles  
of same with much dead leaves.

~~Pseudo~~ Macrophylledrumia

maximiliani 1 specimen from  
dead frond of palm. Crushed  
somewhat in capture. A second  
got away. Exceedingly active.

Muzoa (?) sp. 1 ad. ♀ taken from  
a thick mat of hanging dead  
vegetation.

Hitopeltis sp. A number immatures,  
several stages, from heliconia  
blossoms.

Ratnidia, pale species, 1 ♂ beaten  
from hanging dead ~~the~~ vines &  
leaves in tangle.

Immat. micropygid Rhyacis beaten  
out of tangle of dead vegetation.

Ceroys-like phasmod, 1 ♀ 1 juv.  
Both beaten from dead stuff  
hanging in undergrowth.

2 immat. Pseudophyllids beaten  
from ditto.

Anabropsis marmoratus 1 ♀  
beaten from heavy mat of dead



sticks & leaves resting against  
tree trunk about 4 feet up.

Diatrypa sp. 2 species beaten  
from dead stuff.

Aphnomorphus 1 ♂ ditto.

Amphicneta sp. 2 ad. ♀ & juvs.  
in two stages. all beaten from  
dead stuff, including leaves of  
platanillo.

Anaxipha large species } all taken  
" 2 sm. species } from green  
foliage of  
ground fern  
in more open  
places.

Cetonia - like sp. (new  
to trip). 2 ♂, 1 ♀ all beaten out of  
dead ~~leaves~~ hanging stuff.

Ripipteryx one swept, along trail.

Mimetica 1 juv. from dead hanging  
vines & leaves.

$$2489 + 68 = 2557$$

$$\text{Other } 2415 + 52 = 2467$$

1927. 58 La Ceñilia, Costa Rica.

IX. 13. 1927. (R.). In bananas & coffee along the R.R. track.

All material, unless otherwise specified taken by shaking & beating dead banana leaves (all hanging).

Sarcinatrix anomalia, locally common, a good series of both sexes - young taken by continued work.

Proctobia sp. 1 ♂ Taken same way.

Neoblattella nahua. Two

" smaller - at least 3 species, probably more.

Series taken should show relative abundance as almost none escaped.

Epitanyra albomaculipes 1 ♀.

Corynetes sp. 1 juv. under dead banana trunk on ground.

Chrysomura white-lined species.

One, all seen.

Pseudomicropterus infusca. One beaten from banana leaves.



Taeniopoda reticulosa. 1 ♂ hopping  
along track.

Hypobrycon (?) 1 nearly adult ♀,  
1 quite immat. ♂ beaten.

Anaxipha banded-eyed. spec.  
One beaten.

Anaxipha rugulosa determined sp.  
One beaten.

Cycloptilum sp. 1 ♀, not mature,  
beaten.

$$2557 + 84 = 2641$$

Octus  $2467 + 17 = 2484$

---

1927. 59 Same as 1927. 57 but 1X. 14. 1927.  
The day (morning) being bright, more  
green foliage work was possible,  
particularly in the small clearings  
made by cutting logs.

Salix americana a small colony  
ado. & sev. young in & under a fair  
sized rotting log.

Pyrogra 1 ♂ from dead vegetable  
matter - rotting foliage in a  
hanging mat of vines & twigs.

Paraspratta picadori (?) 1 ♂ from

Same type of material in another situation.

Neoblattella nahua 1 swept from foliage.

Neoblattella smaller sp. 1 ♀ ditto.

Pseudophyllodromica larger sp. on low foliage. 3.

Anaplecta mexicana type. 1 from hanging mat of dead foliage.

A. lateralis type. 2 swept from vegetation (low).

A. black species. One from under dead wood.

Epilampra add. sp. One from hanging dead twigs & vines.

Epilampra sp. 1 from dead wood.

Rhinoda sp. 1 ♀ from dead stilt roots of a palm stump.

Calolampra 1 ♀ from under dead tree trunk.

Small black ♂ Mionyx like sp.

1 ♂ swept from dead foliage. ~~Thrinops~~ Thrinops from

Choradris ferrillai 1 female

♀ beaten from low (3 ft) weed like vegetation in cutting clearing.



Cecrop-like phacnid. A number  
of juvs. beaten from foliage &  
from tangles of dead twigs,  
etc.

Plumides (?) sp. 1 immature  
snout from overhanging foliage.

Scania sp. Ads. & juvs. numerous  
in low foliage - exceedingly  
active. Ads. all with green  
in their coloration very evident.

Chiriguia (?)  One snout  
from ground.

Paratettix Senal, ditto.

Tylotettix (?) sp.  One, ditto.

Cumastid juvs. from green foliage  
of undergrowth.

Rhachicnagra sp. juvs. only in  
low foliage in cutting.

Microlylopteryx persifera. few  
det. but not common in all  
undergrowth where they can  
penetrate. Ads. & juvs.

M. hebardii Ads. & juvs. similar  
habitations, but less numerous  
& more local. ~~very active~~  
Both species active and good

jumpers.

Chromacris brizon 1 pair swept  
from undergrowth foliage.

Nicarchus euzalus first ♀ taken.  
Jumping in low weed-like foliage  
in cutting, along side of a large  
log on which I was walking. Spotted  
probably not 50 yds. from where I  
took the 1st male four years ago.  
That was taken on top of such  
a log!

Urophus large species. One ♀  
from low foliage - but a few  
seen.

Urophus smaller elongate sp.  
18 ditto. Same comment.

Phlugis 1 spec. swept from low  
foliage, all seen.

Dumet. pseudophyllids beaten from  
undergrowth foliage.

Ripipteryx large species. A few on  
ground even foliage in cutting.

Ripipteryx smaller species. Same  
comment.



Porca 1 ♂ in lucuma in  
cutting. All seen.

Amphicnistus sev. juvs. from  
dead hanging mats.

Prothama (?) One ♂ from among  
stilt roots of palm stumps (seara  
palm).

Pale lined Metrypa 1 ♂ shaken  
from hanging mat of dead fronds,  
leaves a mould.

Large Anaxipha ~~on~~ two foliage.

Sm. " with corrugated  
tegmen. ditto.

Cycloptilum 1 ♀ from hanging  
mat of dead vegetation.

Gorgon-bellon bodied beetle  
from dead wood (stump).

Great diopsid fly with hammer  
head, in foliage.

$$2641 + 88 = 2729$$

$$\text{Othius } 2484 + 40 = 2524$$

---

1927. 60. Grapiles, Costa Rica.  
IX. 14. 1927. (R.)

One Taeniopoda reticulosa at

base of royal palm in grounds of  
"Salvador".

*Trogoniza* trees about broken cells  
on veranda of same.

$$2729 + 1 = 2730$$

$$\text{Cestus } 2524 + 31 = 2555$$

---

1927.61 Same as 1927.60 but  
at light at night on verandas.

*Gryllacris* in glass screen.

$$2730 + 1 = 2731$$

$$\text{Cestus } 2555 + 12 = 2567$$

---

1927.62 Same as 1927.59 but IX & 15.  
and not in the same forest, but in  
an area of second growth forest but about  
a mile above La Cuicila, and probably  
a hundred or so feet below other working  
points. Forest largely *balsa* and *garitán*,  
with some *guarumo*, ~~low~~ under trees  
averaging about forty feet with  
undergrowth in open spots and  
along edges very rank and high,  
areas of *Sacaton* grass intruding  
in places. Under heavy canopy shade  
was dense and conditions  
more nearly approximated the  
"montaña alta."



Spondex percheroni 1 ad & 1 juv under  
dead wood.

Pseudophyllodromia small species,  
shaken from hanging dead balsa  
leaves and also swept from foliage.  
Phytotegm. Dochnoptera - 1 ♂ from  
under dead wood.

Anaplecta analisignata from dead hanging  
balsa leaf.

Gandy comment. Pseudomopine ditto.

Anaplecta 1 each species - under dead  
wood.

<sup>Neoblattella</sup>  
Dochnoptera naheua a number from  
hanging dead balsa & guarumo  
leaves.

Neoblattella slender sp. ♂ & ♀. Numerous  
ditto.

Neoblattella (?) much darker spec. same  
comment. The two taken together.

N. ♂ & ♀ 1 single male. From dead leaves.

Epilampra ♂ & ♀ shaken from dead  
leaves.

Muzoa (?) 1 ♂ from under dead  
wood.

Stagmomantis add. short-winged sp.  
1 ♀ 1 juv. swept from high green  
vegetation in forest margin.

Heterogonys maya one specimen  
running up & down moss & lichen  
covered trunk of garilán tree.  
Procrystism marked. Exceedingly  
active & difficult to capture.  
Small & immature mantis. Shaken from  
dead leaves.

Plumides (?) beaten from dead vines,  
twigs etc. hanging from tree.

Pseudophasma sp. flying in forest.

Tylothrix (?) among dead leaves scattered  
on lower parts of forest floor in  
heavy shade.

Enmastax 1 on green undergrowth  
foliage on forest margin.

Truxalis in sacaton & similar  
grass in open spots.

Arphidella a few in ditto.

Aspilota only a few on forest border.

Leptomerinthopora not uncommon  
in the more open spots, very  
active.



Rhachicnaga 1 juv. in forest  
Microdylopteryx fusiformis not  
common, in forest & in same  
situations as Liptomeria theophrasti.  
Phryganidia binaculata 1 ad. & 1 juv.  
♀ from foliage of undergrowth in  
forest border. 1 add. ♀ seen but escaped.  
Search located no males - possibly  
reason is nearly over.

Nautia pitaeatum 1 fine male  
empt from foliage of undergrowth  
just within edge of forest.

Anabropsis croaticensis 1 juv.  
from under dead wood.

Gryllacris sp. 1 fine ♂ beaten  
from hanging dead leaves (baloa).

Large Cerophus a few in forest  
& along border - green - brown  
phases - all of latter seen  
taken.

Medium-sized Cerophus more  
common - in some open spots -  
all green.

Anaulacomera sp. 1 ♂ beaten  
from undergrowth <sup>foliage</sup> forest on  
border of forest.

Phlaegia sp. 1 taken from same.

Eriolus sp. 1 ♀ " " "

● Connephalus sp. 1 juv. ♀ in open  
from sacaton.

Sphyrnotopos 2 juv. on ground  
in forest.

Mimeticia sp. 1 juv. from dead  
leaves.

Gongraneris add. sp. 1 ♂ from  
dead leaves.

Immat. pseudophyllid, ditto.

● Parca a very few in forest.

Chlaetypa 1 ♀ in forest on low  
growth.

Anaxipha 2 sp. on border foliage  
(undergrowth).

?? Aurogryllus (hardly), a  
short-segmented heavy built gryllid,  
3 ad. ♂ juv. ♀♀ + juv. ♂ all  
under dead wood, logs, stumps,  
etc.

$$2731 + 121 = 2852$$

$$\text{Others } 2567 + 53 = 2620$$



1927. 63 Same as 1927. 58  
but IX. 15. Habitat exactly  
the same, but an extension  
of the same work.

Saigona anomalus very local &  
not as numerous as in the area  
examined previously.

Neotattella species. As before.

Blackish dotted, pale lined Anaplecta -  
2 from dead banana leaves - another  
escaped.

Epilampra abdomen-nigrum 1 ♂ &

1 ♀ from dead banana leaves.

Miopterygid mantis ♀ from same.

Anaxipha from ditto.

Aphronomorphus " "

Taeniopoda from snapiles at house.

$$2852 + 66 = 2918$$

$$\text{Others } 2620 + 8 = 2628$$

1927.64 Siquirres, Costa  
Rica. Elev feet.

IX.16.1927. (R.).

Work done among bananas,  
sweeping weeds between and  
shaking dry leaves.

Microtettella + Anaxipha from  
dead leaves.

Symphylorhynchus, Neconocephalus,  
Leptomermithopora +

Microlepturus, taken  
from weeds. Phlugis + Conocephalus  
Juv. Pseudophyllid for dead  
leaves.

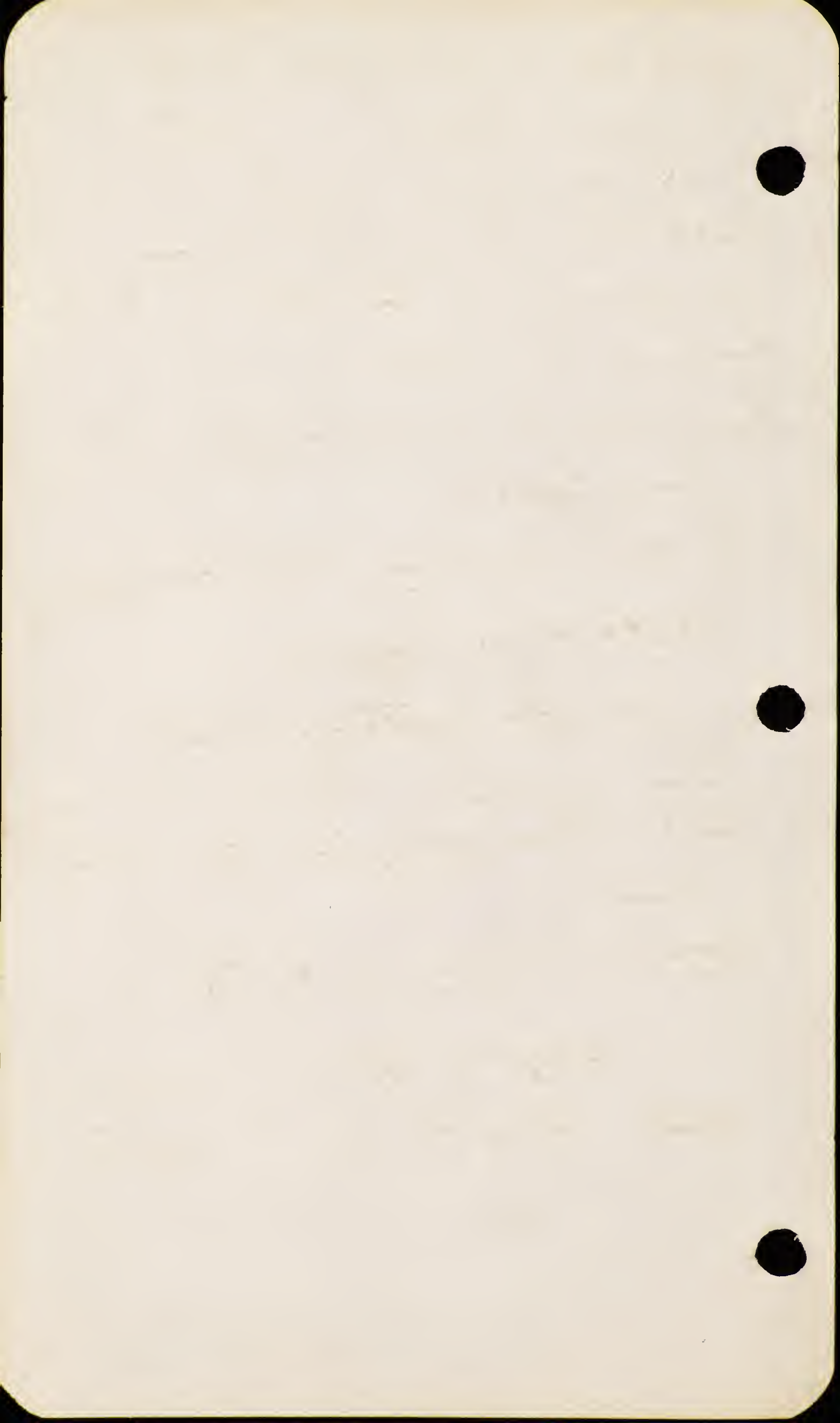
Aphononophus ditto.

$$2918 + 48 = 2964$$

$$\text{Abas } 2628 + 23 = 2651$$

---





Honduras

1930





1930. 1. Tela, Honduras. June 30, 1930.

Tamnopoda centurio numerous,  
and mating, along R.R. right of  
way and eating plant resembling  
burdock. Males drummed when  
disturbed. Natives call them  
"chacalac", in account of noise  
made so they said. (E-W) Cephus  
in short grass along same.

Ortho 26  
4

1930. 2 Rosario, Honduras. ~~700~~ feet.  
July 9, 1930. 5150

Worth about windows. Insects in  
grass on trail. Passalus & other  
beetles along trail.

Orth 1 + 26 = 27  
Orth 9 + 4 = 13

1930. 3. Same as 1930. 2 but July  
10, 1930. Beating, sweeping

& picked along trail alongside  
of flume, around Granada Pina  
Blanca.

Macharona 1 ad. swimming  
in ditch (V.T.E). Zooperamus sp.  
2 ♂ beating (V.R.) Sphenarium-like  
sp. immature, all beating low bush



along trail. Uemilia juv. same. Chrys-  
crura j. ditto. Inara & Cerophus  
juv. ditto. Chichroplus (?) juv. Eumastix  
juv. ditto. Chorionura 1 ♀ beating  
vegetation. Ripipteryx sweeping along  
trail. Stegomyia similarly secured.  
Certs.  $20 + 27 = 47$

Others no.  $202 + 13 = 214$

1930.4 Same as 1930.2 but VII-11, 1930  
and elevation <sup>5700</sup> to 6400 feet.  
5150-5500

Beating, sweeping and picking  
trail side and into tangles  
and pocket. J.T.E. went as  
high as 5800 feet into high mountain  
forest.

Chorionura 2 ♂ shaken from  
hanging dead leaves. Neotattella  
sp. juv. only, shaken from under  
one hanging mat on cut bamboo.

Sermyle juv. beaten from foliage.

Episactus - like Eumastix - large.

1 ♂, 1 ♀ taken by J.T.E. in heavy  
forest, on ground. Silvitellus (?)

1 ♀ ditto. Zooperamorus (!) beaten  
from trail-side shrubbery. 3 ♂.

No off seen. Not a particularly  
 active jumper. Sphenarium-like  
 All juvs. Beaten from trail-side  
 vegetation. Aspilota (?) juv. ditto.  
Chorophus juv. 2 ditto. Phaenocarpa (?)  
 1 ♀. Taken from dead leaves.  
Oecanthus varicornis or near, 1 juv.  
 from dead leaves. Ripipteryx  
 swept from ground along trail  
 Cnt 37 + 47 = 84  
 Other ins. 144 + 214 = 358

1930.5 As 1930.3 but taken by  
 J.T.E. with light at night in  
 shrubbery. Chorophus 2 ad.

$$\text{Cnt } 2 + 84 = 86$$

$$\text{Other ins.} = 358$$

5150  
5730 ft.

1930.6. As 1930.4 but at night.  
 Large moth in house, small moth  
 in veranda.

$$\text{Cnt.} = 86$$

$$\text{Other ins. } 2 + 358 = 360$$

1930.7 As 1930.2 but VII. 12, 1930.  
 Beating, sweeping & scattering of dead  
 leaf work along trail by flames.  
 Rain & fog regular. Choriamma  
 2 spp. taken from dead leaves



Juv. Neottatella ditto. Glabrous  
& pseudomorph from <sup>root</sup> mat under  
overhanging bank. Juv. Cumtaria  
& Sphenarium-like as previously.

Tropaeum in low shrubbery. Micro-  
centrum & beating in leaf of tree h.

Juv. Dura shaken from dead leaves.

Cycloptilum ditto, ad. & juv. Ripipteryx

snapt from ground of trail. Neoxabna

2 juv. from dead leaves.

$$\text{With } 15 + 86 = 101$$

$$\text{Other inv. } 61 + 360 = 421$$

---

1930. 8 Same as 1930. 3 but

VII. 13. 1930. Beating, sweeping  
& picking along flame trail  
shrubbery to Peña Blanca  
gulch and ~~to~~ beyond.

Chorionura 18' 1♀ shaken from same  
dead leaf. Chorionura 1♀ beaten  
from shrubbery. Scryph 2 juv. ditto.

Imm. Sphenarium-like and  
Cornelia (?) ditto. Microcentrum  
ad. ♂ & imm. fern. ditto.

Secanthus juv. ditto. Ripipteryx

on bare ground of trail and slope  
of cut bank.

$$\text{Orth. } 15 + 101 = 116$$

$$\text{Orth. ins. } 126 + 421 = 547$$

1930.9 As 1930.8 but VII.14. 1930 +  
elevation ~~5850~~ <sup>5900-6000</sup> ~~6200~~ feet. In very steep  
forest ravine above Peña Blanca  
and along road to latter.

Grass 18 beaten from hanging  
dead leaves in heavy forest. Scrub  
4 pins. ditto. 1 immat. Blattid  
ditto. Isotperamus sp. numerous  
in short grass and low bushes  
along road just below Peña Blanca  
Nothing else seen.

$$\text{Orth. } 25 + 116 = 141$$

$$\text{Orth. ins. } 43 + \frac{547}{\cancel{421}} = \cancel{564} 590$$

1930.10 as 1930.9 but different  
elevation 2 units <sup>6550</sup> ~~6900~~ feet.  
Woth <sup>6200</sup> ~~6600~~ feet (C.B.H.) <sup>in epiphytic</sup> (V.T.E.) <sup>Graminid</sup>

$$\text{Orth. } 141$$

$$\text{Orth. ins. } 3 + 590 = 593$$



1930.11 As 1930.10 but 5150 feet.  
5150

Tropidacris resting on rail  
of steps to house. Short. legm.  
pseudomysid beaten from vegetation  
hanging from medicinal bank.  
Sermyla pins. from shrubbery, beaten  
+ swept. Stagmomantis 2 pins. swept  
from shrubbery. Rhipidura on ground  
of trail and on low leaves of  
shrub foliage. Paratettix 2 specimens  
swept from bare ground of trail.  
Green Sphenarium-like pins. on  
foliage. Orophus 18 on foliage  
along trail.

$$\text{Orth. } 34 + 141 = 175$$

$$\text{Other ins. } 60 + 593 = 653$$

---

1930.12 As 1930.11 but VII.15.1930  
Moths at light in Am.

$$\text{Orth.} = 175$$

$$\text{Other ins. } 21 + 653 = 674$$

---

~~1930.~~ Same afternoon  
~~5500-5700~~ feet.  
5100 - 5450

Ripipteryx common along  
road. Neoxabes beaten from  
shrubby. Zootamnus 1 ♀  
along road on ground.

Orth.  $15 + 175 = 190$

Other ins.  $17 + 674 = 691$

Same evening - moths at  
light.

Orth. = 190

Other ins.  $11 + 691 = 702$

---

1930. 13 Rosario, Honduras.  
Cloud forest. <sup>6000</sup>~~5400~~ feet. C.A.W.  
Orth. = 190 VII. 16. 1930.

Other ins.  $2 + 691 = 693$

---

1930. 14 Rosario, Honduras.  
<sup>5150</sup>~~5700~~ VII. 16. 1930. Moths at  
light - taken in air. Also pair of  
Orth. = 190  
Other ins.  $25 + 693 = 718$



VII. 17. 1930

1930. 15 Same as 1930. 14 but  
 along flume trail, same elev.  
 sweeping, beating & picking. Blow  
 1 ♀ shaken from hanging dead leaf.  
 Short-winged ♀ blatted from dead  
 leaves & sticks under cut bank.  
 Juv. blattids ditto. Chorionema 2 ♂  
 from dead leaves. Juv. Semiole  
 ditto. Juv. Stagmomantis ditto.  
Tettigidea sp. 1 ♂ on shade area along  
 trail, long search produced no more.  
Paratettix 2 spp. grassy spot near  
 brook. ~~ditto~~ Telmotettix sp. 1 ditto.  
 ♀ Truxalis in shrubbery along trail.  
Ripipteryx along trail in shrubbery.  
Insana juv. beaten from foliage.  
 Orth.  $15 + 190 = 205$   
 Other ins.  $78 + 718 = 796$

1930. 16 Same as 1930. 14 but  
 VII. 17. 1930. Moths taken in  
 morning about light.

Orth. = 205  
 Other ins.  $23 + 796 = 819$

1930. 17 Cloud forest above Rosario,  
Honduras. ~~6500 - 6800'~~ VII. 17. 1930.  
6100 - 6400'

Trail side work in heavy forest.  
Little seen. One immature *Sparranthus*  
under bark on log - nothing else  
there. 4 ♂ *Truxalids* in small  
grassy spot.

Crth.  $5 + 205 = 210$

Other ins.  $25 + 819 = 844$

---

1930. 18 Rosario, Honduras.

~~5700' - 5800'~~ ~~5150 - 5300'~~ Back road. Along  
road, cut on land a small area of  
grass. VII. 17. 1930.

*Cypholalla punctata* in grass.  
Chiefly immature & common in that  
condition. *Tettigidea* sp. 1 in grass  
area. *Paratettix* in grass along side  
of road. *Ripipteryx* ditto and on  
bare road.

Crth.  $16 + 210 = 226$

Other ins.  $63 + 844 = 907$

*Mesochorus* 1 ♀ JTE. along fence trail  
in grassy spot.



1930.19 Rosario, Honduras. <sup>4900-</sup>  
~~5150~~ ~~5700~~ feet. VII. 18. 1930. Trail  
side + forest edges.

Larv. ♂ from under bark of dead  
stump (forest edge). Immature. Stagmom.  
beaten from under foliage. Diapheromera  
1♂ + 1 juv. ditto. Large ♂ Cumastacid  
on ground at base of rock shoulder,  
in very low herbage, forest edge.  
Immature. Cumastacid beaten from  
shrubby-ops. Sphenarium-like juv.  
ditto - always green. Oryphelloid  
♂ + ♀ in same situation as  
large Cumastacid. Ripipteryx  
along road. Lucania juv. beaten from  
open shrubby.

$$\text{Cerb. } 12 + 226 = 238$$

$$\text{Other ins } 98 + 907 = 1005$$

---

1930.20. Rosario, Honduras. ~~5700~~  
VII. 18. 1930. Moths at light in  
Am.

$$\text{Cerb.} = 238$$

$$\text{Other ins. } 3 + 1005 = 1008$$

---

1930. 21 As 1930. 3 but VII. 18, 1930.

One swept from foliage, 18. Large

*Emmactuid* ♂ near grassy wet spot, but back against foot of rock wall, where much drier. No more found, even after extensive search.

$$\text{Cuth. } 2 + 238 = 240$$

$$\text{Cuth ins. } 37 + 1008 = 1045$$

1930. 22 As 1930. 20 but VII. 19, 1930.

$$\text{Cuth. } = 240$$

$$\text{Cuth ins. } 49 + 1045 = 1094$$

1930. 23 Cantarranas, Rio Grande valley, Honduras. Elev. <sup>192</sup> ~~1900-2000~~ 2200 feet. VII, <sup>192</sup> 20, 1930.

Rich bush vegetation, heavy bush and trees with many acacia type trees, some very large and spreading types, & potreros of pinna grass, areas of sugar cane and small patches of bananas. No bull-horn acacias but many other types both arborescent and shrubby, some of latter with tassels of red thread-like blossoms. Along with tangles of trees and vines, monkey ladder lianes, but



no dense lowland forest and about  
1000-1500 feet below pine zone.  
No platanillo seen and almost no  
epiphytes or mosses. No guarumo &  
flora ♀ and Skudyle ♀ & tratin from  
hanging vines. Anaplecta near  
mexicana 2 spec. from small dead  
leaf clusters - all seen. Neoblattella  
3 ♀ and Latiblattella 2 ♀ from  
dead leaves and hanging vines, some  
rim wash in bank shrubbery, all  
beaten & no ♂♂ seen. Pseudomops  
1 ♀ & juv. from low shrubbery, 1 adult  
seen & lost. Striking cunastacid  
with most vivid colors in low weeds  
and in garden of hacienda, most  
immature, 3 ad. ♂ & 2 ad ♀ taken. Moderately  
active, but few lost. In color (from  
freshly killed ♂): body above shining  
emerald green, becoming turquoise  
blue on head, apex of abdomen all  
around solidly carmine, also some  
abd. segments before abd. apex becoming  
pale turquoise blue with.

transverse black patches proximad,  
a medio-long. fine black line: rem-  
ainder of head turquoise blue, eyes  
black, antennae black with 2  
prox. segments pearl, post-ocular line  
black; lat. coxae of abd. of dorsal color  
with slight golden tendency, propleura  
& coxae of ceph. limbs carmine; meso-  
and metapleura turquoise blue,  
merost.  
^ ~~coxae~~ coxae carmine, metast. coxae  
whitish; lat. aspects of abd. turquoise  
blue ventrad of lat. series of black  
patches, venter of abd. pearl,  
meso & metathorax turquoise blue  
with greenish reflection; base of  
color all limbs greenish straw yellow,  
lined with black.

Orphulella punctata very abundant  
generally in muddy spots and in  
grasses. Largely immature.

Thryptilum ♂ only. in same low  
muddy areas of cultivated. A  
vigorous jumper.



Leptotarsus 1 spec. found in field of  
juniper grass along road on lower  
ground. Chromola 1 ad. + num.  
juvs. in low weeds in garden.  
Didymopanax ditto. Stenocranus 1 ♀  
near river in juniper grass, all seen.  
Sphuraria, like 1 juv. only seen &  
taken, in low weeds in garden.  
Chrysophaga 2 ♀ all adults seen, num.  
juvs. in low weeds in garden and  
in brush along river. Scudderia-  
like juvs. beaten from weedy  
areas. Dracana 1 ad. ♀ in weeds in  
garden. Phlegis 1 juv. in weeds  
of garden. Campoplex sev. ads +  
many juvs. in garden and in  
grassy areas near river. Cycloptilum  
1 ad. + 1 juv. beaten from juniper and  
dead leaves. Hypothymus 1 ad. ♀ ditto  
Ceteorus-like 1 ♂ + 1 juv. ditto.  
2 species Anaxipha beaten from  
foliage. Micryllus juv. about  
veranda of hacienda.

$$\text{Orth. } 85 + 240 = 325$$

$$\text{Other ins. } 195 + 1094 = 1189$$

1930. 24 Rioarid, Honduras. 5150,  
~~7000~~. VII. 20. 1930.

Rechnupt. mfa in house.  
 Moths at light.

$$\text{Orth. } 1 + 325 = 326$$

$$\text{Other ins. } 2 + 1189 = 1191$$

1930. 25 Same as 1930. 24 but  
 Am. VII. 21. 1930. Moths  
 in hall at light.

$$\text{Orth. } = 326$$

$$\text{Other ins. } 13 + 1191 = 1204$$

1930. 26 Same as 1930. 25 but VII.  
 22. 1930. Am.

$$\text{Orth. } = 326$$

$$\text{Other ins. } = 25 + 1204 = 1229$$

1930. 27 Rioarid, Honduras. VII. 22.

1930. Cloud forest. ~~5400~~<sup>5000</sup> feet. Along  
 Pina Blanca forest trail. Beating,  
 sweeping, etc. ♀ Praso beaten  
 from overhanging mat of roots, soil,  
 etc. Juv. Sparattoid from under  
 bark. Male short-winged Pseudomapiid  
 beaten from dead leaf masses. With



for male Chorismura. Larger  
phasmid from arborescent  
bromeliad, smaller from leaf and  
twig tangle. Range eumastoid  
locally numerous along trail, usual  
on near dead leaves, but occasionally  
in green stuff. Active but ♂♂ rather  
deliberate in jumping; ♀♀ more  
active and harder to secure, also markedly  
protected in coloration. Juv. eumastoid  
same conditions - same species?

Comptosia-like species common  
locally, found jumping but not particularly  
easy. Found in dead leaves and  
on green areas equally. Juv. Isara  
beaten from dead leaves and twigs.  
Juv. pseudophyllids all from  
dead hanging leaves. Akabropsis  
sp. 5 ♀♀ all beaten from soil  
of undercut, on hanging banks,  
no males found after persistent  
work, occurred in three spots.  
♀ flatiron pyllid from hanging  
dead leaves.

$$\text{Orth. } 67 + 326 = 393$$

$$\text{Other ins. } 33 + 1229 = 1262$$

1930.28 As 1930.25 but VII.  
23.1930

$$\text{Orth.} = 393$$

$$\text{Other ins. } 18 + 1262 = 1280$$

1930.29 As 1930.27 but VII. 23.1930.

♀ Chonimura beaten from dead  
leaves. ♀ shining pseudomorphid  
ditto. Proo ♂ & juv. all  
beaten from hanging dead  
leaves. males scarcer, juv.  
predominating. Others as of  
VII.22.1930. Ripipteryx along  
trail - true ground. Color phases  
of Carpocoris - like breast  
pronounced - very different.  
♀♀ of heavy cinnamomeid very  
variable in color tone and very  
efficiently protected - ♂ on other  
hand rather evident.

Large patch disturbed from dead leaves.

$$\text{Orth. } 42 + 393 = 435$$

$$\text{Other ins. } 25 + 1280 = 1305$$



1930. 30 Peña Blanca, Rosario,  
Honduras. ~~6400'~~ VII. 23. 1930.

All taken at night at lights  
about office, compressor house, etc.

Large phalangopsid resting on  
building. Horn 2♂ on wall.

Compsoeris - like ♀ on wall.

Orth. 4 + 435 = 439

Other ins 68 + 1305 = 1373

1930. 31 Same 1930. 25 but VII. 24,  
1930. Moths about light in A.M.

Orth. = 439

Other ins. = 29 + 1373 = 1402

1930. <sup>32</sup>~~32~~ Same as 1930. 8 but  
VII. 24. 1930. Same type of work.

Chorizanthe 2♂, 2♀ shaken from  
hanging dead leaves. Juv. Neoblattella  
ditto. Paratettix one in grass along  
foot of rock wall. green pygma  
pyrgomorphid, <sup>(juv.)</sup> swept from  
trail-side vegetation. Compsoeris-  
like beast on low ground

com - mady, D. ♀. Lactuca  
Termitus sp. low road.

Machaerocera sp. 2 ♂, 3 ♀, 1 juv. on  
bare rocks of Peña Blanca  
wash, all seen taken except 2  
♂♂, latter sex quite wary, ♀♀  
not at all easy to catch. Act  
very much like Sphingonotus.

Orophus sp. 1 ♂ swept from trail-  
side foliage. Oecanthus juv.  
ditto. Nexabia juv. ditto.

Ectecurus-like juv. shaken from  
dead leaves.

$$\text{Orth. } 22 + 439 = 461$$

$$\text{Orth. ins. } 102 + 1305 = 1407$$

---

1930.33 Peña Blanca, near  
Rosario, Honduras. VII. 24. 1930.

All at light. J. T. Emery, Jr.

$$\text{Orth. } 1 + 461 = 462$$

$$\text{Orth. ins. } 62 + 1407 = 1469$$

---

1930.34 Same as 1930.25 but  
VII. 25. 1930. Most about light in  
am. Others about house.

$$\text{Orth. } = 462$$

$$\text{Orth. ins. } 75 + 1469 = 1544$$



1930.35 Rosario, Honduras.

Lumber trail ~~5400-5600~~ feet.  
4800-5000

VII. 25. 1930.

Immature Blattids (Neoblattella sp.)  
beaten from hanging dead leaves.  
large ~~emmetoid~~, spp along side  
of trail in leaves and low vegetation -  
all seen. Empoasca-like beast  
same situation - mostly males, quite  
active. Lucania 1 ad. ♂, juv. numerous  
in all stages. Immature Microcentrum <sup>stylatum</sup> H31  
resting in broad-leaved foliage.  
Juv. Ectophasia beaten from  
hanging dead leaves.

Orth. 16 + 462 = 478

Orth. ins. 60 + 1544 = 1604

---

1930.36 Rosario, Honduras.

In pine. ~~4800~~ <sup>4400</sup>, VII. 25. 1930. C.B. Worth

2 white tailed hemipters. -  
one shot <sup>in flight</sup> the other taken from  
trunk of tree.

Orth. = 478

Orth. ins. 2 + 1604 = 1606

---

1930.37 Rosario, Honduras.

various dates in July, 1930, mat.  
firm, but *Neopelmatus*,  
which is VII. 25. 1930.

Orth.  $1 + 478 = 479$   
Other ins.  $11 + 1606 = 1617$

1930.38 As 1930.25 but VII. 26. 1930.  
Moths about light in Ass.

Orth.  $- 479$   
Other ins.  $11 + 1617 = 1628$

1930.39 As 1930.9 but VII. 26. 1930  
Elev. ~~6400~~ feet.  
5500-5700

Praxo 2 ♂, 1 ♀ juv. beaten from  
hanging dead leaf clusters. 1 juv.  
Campoblatia in dead leaves on ground  
1 ♀ shiny pseudomopid shaken from  
mat of leaves and twigs. Large  
cuneate ♂ & ♀ terio taken  
in drier parts of trail, on dead  
leaves and on rock faces, ♂♂ scarce,  
♀♀ much more numerous, taking  
refuge in denser stuff off  
trail when pursued. ♀♀ with  
protective coloration most pronounced,  
but sexes equally good jumpers.



Comptosia-like species in same  
areas as umastoid, ♂♂ more  
numerous than females and  
very active. Immat. pseudophyllid  
shaken from <sup>hanging</sup> dead leaves.

$$\text{Certs. } 29 + 479 = 508$$

$$\text{Other ins. } 16 + 1628 = 1644$$

---

1930.40 Rosario, Honduras.

~~6300-6400'~~ Main trail on ridge.

VII. 26. 1930. (Emlen - North) Cloud forest.

$$\text{Certs.} = 508$$

$$\text{Other ins. } 20 + 1644 = 1664$$

---

1930.41 Rosario, Honduras.

VII. 27. 1930. Moths at light in AM.

$$\text{Certs.} = 508$$

$$\text{Other ins. } 22 + 1664 = 1686$$

---

1930.42 <sup>(Below forest)</sup> Between Rosario and  
Cantarranas, in pine and oak  
belt, elev. ~~4100'~~ 4200 feet. VII. 27. 1930.  
Pine area, in part solid and dense, but  
usually open and park-like, with  
oak scrub and other shrubby components  
numerous fan-palms scattered  
through. Grass adpressed crab-grass  
type, areas of bare sloping rock.

5♂ 1♀ large Neoblattellaid shaken  
from dead hanging leaves of fan-  
palm. Immat. of species of same outf.  
with black dots to pronotum all  
taken similarly. Euthlastoblatta  
1♂, 1♀ ditto. 1 Ep. Lampyris abdomen-nigrum  
shaken dead from same. 1♂ Euryctis  
abdominalis shaken from same - immature  
none produced no more. Juv. Blattid  
from under dead wood. Chorisoneura 1♂  
all shaken from hanging dead fan-  
palm leaves, apparently from the  
ones are several, altho no nymphs  
seen. 1♂ Holocompsa shaken from  
same. 1 ad. & 1 juv. Paratettix sweeping on  
damp spots. 1 ad. Tettigidea + num.  
juvs. in same fashion and from bare  
rock surfaces. Cephus app. near  
viridis comm. common in grassy  
areas, much localized, many juvs.  
similarly taken, could find no adults.  
Juv. Sphernaria-like in same situations,  
not common. Lactista 1♀ along  
bare road. All pseudophyllids,  
two species, shaken from hanging



dead fan-palm leaves. Just fallen  
on ground in grass areas. Cycloptilum  
♂ & juv. all shaken from dead  
palm leaves. 1 Anaxipha ditto.

$$\text{Orth. } 70 + 508 = 578$$

$$\text{Other ins. } 48 + 1686 = 1734$$

---

1930.43 Same 1930.41 but VII.28.1930  
Moths at light in Am.

$$\text{Orth. } = 578$$

$$\text{Other ins. } 8 + 1734 = 1742$$

---

1930.44 Peña Blanca, Rosario,  
Honduras. VII.28.1930. Moths  
attracted by lights. Am. (J.T.E.)

$$\text{Orth. } = 578$$

$$\text{Other ins. } 65 + 1742 = 1807$$

---

1930.43 Additional moths

$$\text{Orth. } = 578$$

$$\text{Other ins. } 6 + 1807 = 1823$$

---

1930.45 As 1930.43 but VII.29.1930.  
Moths & beetles at light in Am.  
Hemipt. & Heliconias in garden  
of house.

$$\text{Orth. } = 578$$

$$\text{Other ins. } = 8 + 1823 = 1831$$

---

1930.46 Rosario, Honduras. Lumber  
trail. <sup>4800-5150</sup>  
~~5200-5700~~ feet. VII. 29. 1930.

All, taken from foliage of trail-side  
vegetation unless otherwise indicated.  
*Chorismura* ♂ & ♀ shaken from hanging  
dead leaves. *Leptulilla* few in a little  
grass patch along trail. *Gyllus* ♂ in  
ditto. *Ripipteryx* in road.

Cuth.  $10 + 578 = 588$

Cuth. inv.  $126 + 1831 = 1957$

---

1930.47 Rosario, Honduras.  
<sup>5150'</sup>  
~~5700'~~ VII. 29. 1930. Moths at  
light at night.

Cuth. = 588

Cuth. inv.  $4 + 1957 = 1961$

---

1930.48 Peña Blanca, Rosario,  
Honduras. <sup>5800'</sup>  
~~6300~~ feet. VII. 29. 1930.  
Bertho ex W.A. Vickers.

Cuth. = 588

Cuth. inv.  $2 + 1961 = 1963$

---

1930.49 As 1930.45 but VII. 30.  
1930 Am.

Cuth. = 588

Cuth. inv. = ~~7~~ + 1963 = 196<sup>70</sup>~~8~~

---



1930.50 Peña Blanca, Rosario  
Honduras. VII. 30. 1930. (All three)  
Moths about office building in  
Am. Phalangopoids in mine  
in old timbers, rock walls, etc.,  
active jumpers.

$$\text{Cuth. } 23 + 588 = 611$$

$$\text{Cuth. vis. } 95 + 1970 = 2065$$

---

1930.51 Rosario, Honduras.  
VII. 31. 1930. Moths about office in  
Am.

$$\text{Cuth.} = 611$$

$$\text{Cuth. vis. } 10 + 2065 = 2075$$

---

1930.52 Peña Blanca, Rosario,  
Honduras. Moths about office.  
Am. VII. 31. 1930. Moth + Culex.  
Cuth. = 611

$$\text{Cuth. vis. } = 17 + 2075 = 2092$$

---

1930.53 Same as 1930.3 but  
VII. 31. 1930.

Beating, sweeping + picking  
from trail side vegetation.

Phixa-like species 1 ♀ all  
seen, beaten from foliage.  
Sphenarium-like species -

no adults, few immature -

Specimen taken largest seen.  
Schistocerca species juv. only  
seen.

Orth. 10 + 611 = 621

Other ins. 40 + 2092 = 2132

1930. 54 Cantarranas, Rio Grande  
Valley, Honduras. 2200 feet.

VIII. 2, 1930. In garden ground &  
immediately about house. Chiefly  
beating. Chorisoneura 1 ♂ beaten  
from garden weeds. Cypholella  
punctata exceedingly common.

Thysiptera but 1 ♂ seen, taken.  
Ingeus cunae sp. but  
moderately common; few taken.  
Lactista few on <sup>the</sup> path. Heidro-  
notus 1 juv. in weeds. Uaniella  
1 large juv. ditto, numerous very  
small. Aidemura 1 ad. taken,  
many juv. Cropha 1 ♂ 1 ♀ taken  
in weeds. Angulatomera  
triplex 1 ♂ ditto.  
Concephalus 1 ♀ ditto. Anaxipha  
small pale species ♂ & ♀ taken  
beating. Other cecidids, much.



1 ♀ *Ectenurus*-like, all brated.

Orth.  $32 + 621 = 653$

Other inv.  $45 + 2132 = 2177$

---

The same later (J.T.E. Jr.)

Orth.  $= 653$

Other inv.  $32 + 2177 = 2209$

---

1930. 55 Cantarranas, Rio Grande  
Valley, Honduras. 2200 feet.  
VIII. 3. 1930.

In potrero, and in timber screen  
along bank of river.

Aloua lineata ♂ & swept. veg. along river.  
Immat. Alouaptes ditto.

" Nyctibora taken from hanging  
dead leaves along river.

Chorisomima ♂ & ditto

Neoblattella ♀ "

Immat. Sermyle ditto.

Thryophilus ♂ & in low veg. along  
river shore.

Orphulella punctata abdt. in  
potrero and in low weeds  
along river.

green Sphenarium-like leaf-  
1 funeral adult ♀, then  
juv. in low muddy veget.

Helicostrobus ♂ & ♀ a few on stony  
spit in river, exp by low water.

Clavimilia ♂ & ♀ in muddy vegetation.

Immature. green leaf-like body died  
beaten from veget. along river bank.

Immature & brown pseudophyllid  
beaten from hanging dead leaves.

Anaxipha sp. (large). 1 ♀ beaten  
from foliage.

Juv. Cectenus-like for hanging  
dead leaves.

Orth.  $21 + 653 = 674$

Other ins.  $113 + 2209 = 2322$

---

1930.56 As 1930.55 but VIII.4. 1930.

In muddy field, with shrubbery, near  
house.

Chorismura ♂ & ♀ beaten from

shrubby. Immature. Hattids. (Pseudomops?)

ditto. Serruyle juv. beaten  
from shrubby.



Immat. Tettigids from very low  
weed foliage, about six inches or so  
from ground. Brilliantly colored  
Eumastax abundant, usually  
local, generally a pair near one  
another - one in center, active, both  
sexes equally good jumpers, about  
half still immature. Note adult  
♀ with brown tips of abd. - phase  
or distinct? Found in foliage  
from near ground level to as high  
as five feet. Alphadilla punctata  
common, mostly immature, green  
& brown equally numerous. Thyrostethus  
♂ numerous, very active, 1 ♀ adult  
seen but missed, immat. ♀♀  
taken. 1 Leptista in bare  
spot. Sphenerium-like  
pyrgomorphid juv. Dicro-  
chus (?) swept from low weeds.  
Amilia a few adults, juv.  
very abundant in a number of  
instars. - in weeds chiefly.

Aidemna azteca adults fairly num.  
juv. swarming in a number of  
nests - mostly from root.

Urophys in fair numbers, seen on  
weed foliage. Anantacamera ditto.

Insara 1 ad. trapt, a number of  
juv. mainly v. small, seen  
Phaneroptera sp. 1 ♂ & juv. in small  
nests abundant. Eriolus sp. 1 ♀  
trapt from leaves. Conocephalus sp.

juv. swarming, all adults seen  
2 ♂, 2 ♀, taken. Juv. Anaxipha

(green) trapt. Acteonus sp. ♂ & ♀  
& juv. all trapt. Oecanthus large  
sp. 1 ♀ trapt from foliage of  
shrubby. 1 ♀ Hiatrypa from  
low leaves of larger tree.

$$\text{Orth. } 175 + 674 = 849$$

$$\text{Other ins. } 96 + 2322 = 2418$$

1930.5) Same as 1930.56 but VIII.5. 1930.  
Along shaded road & in potreros, sweeping,  
beating and picking.

1 ♂ Latiblattella sp. beaten from  
foliage. 1 juv. ♀ Acentothrips sp.  
ditto. Sermyla sp (?) 1 ad. ♂ & number



Juv. from foliage, vines, & dead  
leaves and mats of dead vines. 1 juv.  
pettigid from ground in damp spot.

Brilliant emerald green from lower  
foliage - numerous. Cyphodactylus  
punctatus common, generally detrit. in  
disturbed land. Thyropilum sp. local,  
females scarce, 2 taken - latter  
sex exceptionally active jumper,  
taking refuge in heavy tangles.  
Rachista sp. one on ground where  
rarely seen. Sphenarium - many  
juv. - 1 ♂ 1 ♀ adult, & adults very  
active jumpers. Crochus numerous  
on low bushes & tree foliage. Anac-  
ura ditto - ~~Acrida~~ Camptomeris  
2 ♂, 1 ♀ swept from foliage.

Conocéphalus sp. juv. abundant,  
adults scarce, on ground cover &  
low foliage. Juv. pseudophyllid  
from dead leaves. Maera 1 ad.  
♂ from foliage. Phlugis juv.  
from low foliage. Large dark

Hapithus - type, 1♀ beaten from  
dead mat hanging in vines. Crochalis  
sp. 1♀ from foliage. Large Anaxipha  
ditto. Orth.  $56 + 849 = 905$

Other ins.  $145 + 2418 = 2563$

Same afternoon. Same work but in  
part in patch of banana - along  
R.D. Grande.

NeMattella ♂♀ from hanging dead  
banana leaves. Sermyle (?) sp. several  
beaten from foliage. Thyrioptilon sp.  
2♂ 1♀ - foliage. Conocephalus  
from tall grass. Stenocranus ♂-♀  
ditto - usual habits. Cycloptilum  
from hanging dead banana leaves.  
Large pale Anaxipha with pattern  
ditto.

Orth.  $17 + 905 = 922$

Other ins.  $37 + 2563 = 2600$

Same evening

Stegomantis named ♂ at light in  
house. Hapithus ♀ ditto.

Orth.  $2 + 922 = 924$

Other ins.  $3 + 2600 = 2603$



1930. 58 Same as 1930. 57 but

VIII. 6. 1930. Beating and

sweeping along trails, partly

bordered with spiny leaves apart, ~~at~~  
largely shaded.

Skunkyle 14 1 juv shaken from

foliage. <sup>Down 18 ditto</sup> ♀ Tragum ifalua type  
empt from foliage. 18 - juv.

Scumyle sp. beaten from mats of

crines and foliage. Brilliant

crinaceous in fair sp. in lower

vegetation. Thyrophila few in

low vegetation. Lactista on bare

spots along road. Anaulacomera

sp. three ads. ♂ & ♀, beaten from

foliage. Brilliant ♀ Campobrotus

beaten from mat of <sup>fern</sup> leaves and

dry stems of crines. General color

yellow green, becoming very pale

flavous green on thorax and

limbs; portions of dorsum & primitum and medii - dorsal

bar on abdomen - legum, distal

extremities of the femora and  
extr. ~~distal~~ prox. portion of tibiae  
purplish red; face and  
facial region shining  
black. ocelli golden yellow; antennae  
of femoral color with prox. jt. purplish  
red; eyes deep amber brown; wing  
of femoral color becoming more  
livid towards distal.

$$\text{Cuth. } 30 + 924 = 954$$

$$\text{Cuth. no. } 37 + 2603 = 2640$$

Same afternoon. Along road  
to upper potrero, with tree & vine,  
jungle tangles, vines, etc.

Neolobophora? 1 juv. beaten from  
foliage. Brilliant Emmastax  
in fair numbers, but a few taken.  
Sphenarium-like, small juv.

numerous. 1 ad. ♀ taken (Kuenen).

Lophulella punctata common,  
mainly juv.

Thysanotus in fair numbers. 1 taken.



Aspilota immat. very abundant, 1  
ad. ♀ Taken from weed stem.  
Ananlacampa 2 sps. ? all  
beaten from foliage - many juvs.  
in several instances.

Phixa ? sp. 1 juv. ditto.

? Microcentrum sp. 2 juvs. in instar  
preceding maturity beaten from  
foliage, extensive search  
yielded no adults.

Conophorus sp. juvs. - examined,  
few adults, 1 ♀ taken, usually  
in low weeds.

Cetonia-like 1 ♀ & 1 juv. from  
foliage - beaten.

$$\text{Arch. } \overset{20}{\cancel{27}} + 954 = 974$$

$$\text{Actin. ins. } 27 + 2640 = 2667$$

1930.59 Same as 1930.58 but  
VIII. 7. 1930. Beating and  
sweeping foliage, etc. along  
road between electric plant  
and "Concordia".

Latiblattella 1♀ swept from foliage.

Stagmomantis juv. ♀. ditto.

Sermyle (?) sp. 2♂ 1♀, latter  
from swept from various types  
of roadside foliage.

Brilliant unfastened in  
fair numbers.

Brown unfastened 1♀,  
on low scrubby foliage with  
preceding.

Thryophilus a few, one taken.

Lactista one on bare road.

Helicobus " " " "

Cerophus 1♀ beaten. Anaulacomera

1♂, 3♀ ditto. Microcentrum

1♀. ditto. Striking large

gyllacis 1♀, ditto, 1 juv. ♂.  
ditto.

Hapithus 1♀ ditto.

Ecturus-like, 1♀ 2 juv. ditto.

Orth. 24 + 974 = 998

Other ins. 54 + 266 = 320



1930. 60 Same as 1930. 55  
but VIII. 8. 1930.

Beating and sweeping foliage  
of trail-side vegetation, trees.

Shrubbery, vines & low corn.

Blacus lin. 1 ♂ swept. Skendzyle 1 ♀  
1 juv. ditto. Latiblattella sp. 1 ♂,  
2 juv. shaken from foliage.

1 ♂ Chorionema ditto. 1 juv.

Pseudomops ditto. 1 juv.

Argemontis braten. 2 ♂, 1 juv.

Strigula (?) from vines and  
leaf tangles. Brilliant  
cinnabarish in fair numbers  
in low corn. Thyridula a few,

1 juv. in low corn. Aphidula

punctata numerous, Aidemona  
numerous in low corn.

Phrixia juv 2 swept from  
foliage. Phaneroptera

Rhinoderma 2 juv. beaten  
from mat of dead rice stems.

1 ♀ beaten. Anaulacamera  
in fair number, beaten.

Microcentrum (?) juv. a number  
in several instars - one taken.  
Mesara 2 - 1 ♂ 1 juv. beaten.

Cnephtharus mainly juv. + numerous.

Oecanthus 1 ♂ beaten. Hapithus

sp. 4 ♂, 1 ♀ beaten. Ectecorus

1 ♂ 1 ♀ beaten. Camptorhynchus

2 juv. beaten. Large pale

Anaxipha beaten. Small

Cycloptilid 5 juv. beaten from  
dead stuff.

Est.  $72 + 998 = 1070$

Other inc.  $158 + 2727 = 2779$

Same afternoon. Exact similar  
condition in fields and pasture  
near house.

Anaplecta sp. swept from  
vine tangle. Latiblattella ♀  
beaten from low bush.



juv. ♀ Acanthothespis ditto.  
Syrnula (?) sp. ad. ♀ beaten  
from dead vine tangle, juv.  
(green) from bushes. Brilliantly  
colored unmarked in fair  
numbers. Urophylia punctata  
common. Vidua ditto, juv.  
swarming. Alcedonides juv. ♀  
in low round ~~at~~ corn.  
Analaemera in bushes.  
Oecanthus 1 ♀ beaten from  
low bushes. Juv. cricket  
encoptoid with prefrontal pattern  
ditto. Juv. cycloptilid from  
tangle of vines.

$$\text{Arct. } 21 + 1070 = 1091$$

$$\text{Lith. in. } 57 + 2779 = 2836$$

---

1930.61 Same as 1930.55 - but VIII.9.1930.  
Beating, sweeping + picking on  
road by upper potrero and along road  
east of gate.

Clon 1 ♂ impt. Skatost 1 ♀ + 1 juv.  
ditto. Lutibattella 3 ♀, Neobattella  
1 ♂, 1 ♀, Chorisomura 3 ♂, all  
impt from foliage, chiefly of  
trees. Stagmomantis rubra, 3 ♀♀  
+ juv. from foliage of low growth.  
Thin juv. Mantid from foliage of  
dry twigs + vines. Juv. Acontisthespis  
♀ impt from low can. Semiole (?)  
sp. 2 ♂ sev. juv. from both tree  
and bush foliage. Walking  
stick resembling Rhabdoserotites  
1 ♀ juv. from dead leaves and  
twigs. Other spined-head Walking  
stick 1 juv. ♀ similar situation.  
Tettigidea sp. 1 ♂ from low foliage.  
Brilliant Camastoid numerous.  
Orophulella punctata numerous,  
more adults than a few days  
ago. Thyridula a few in  
low can, ♀♀ virescens numerous.



Sphenarium - like, not common,  
 3 ♂, 1 ♀ taken, a few juvs. preferably  
 in one quite rank smelling  
 weed. Lactista 1 in bare  
 road. Aidemona numerous in  
 low corn. juv. Hedronotus in  
 very low ground corn. Rhinoderma  
 2 juvs. beaten from vine foliage -  
 on stems? Crochus a few  
 on tree and weed foliage. Anallus  
versus sp. ditto, ♀♀ much  
 more frequent than T. fusca  
 a few from low corn. Camptopus  
 from tree foliage. Oecanthus ♀  
 from tree foliage. Neoxabris ♀  
 ditto. Ectophasia and Alipha  
 similarly beaten and from dead  
 vine stems.

$$\begin{aligned}
 \text{Orth. } 79 + 1091 &= 1170 \\
 \text{Ather in. } 89 + 2836 &= 2925
 \end{aligned}$$


---

1930.62 Same as 1930.55 but  
VIII.10.1930.

Certh. - 1170.

Cether ins. 4 + 2925 = 2929

1930.63 Same as 1930.2 but  
VIII.12.1930. At lights in  
Am

Certh. - 1170

Cether ins. 8 + 2929 = 2937

1930.64 Rosario, Honduras.

<sup>5700-5800</sup>  
~~6100~~ feet. VIII.12.1930. In cloud

forest, largely second growth.

1 ♀ polished pseudomopid under  
bark of dead stub. 1 juv. ♀

Neolobophora ditto, very small juv.

Sparattus ditto, under same bark as  
Neolobophora. Extensive search made  
for adults of each, without results.

1 ♀ adult Cephus along edge of  
trail in forest. 2 ♀ Ambrosia (?)  
beaten from under edge of overhanging  
cut bank.

Certh. - 8 + 1170 = 1178

Cether ins. - 28 + 2937 = 2965



1930.65 As 1930.35 but

VIII. 13. 1930. Same elevations.  
Beating, sweeping, etc.

Chorionema 1♂, 1♀ 1 juv. beaten from  
leaves and dead stuff. 1 juv. Stagnum-  
nautis from leaf foliage. 1 ad. ♂

Borba sp. at Rosario, 5150 ft., on veranda  
of an house at noon. Sphenarium sp.

1 ad. ♀ resting on upper surface of  
leaf of "lengua de vaca", then swept  
from various foliage. Striking  
orophyllid, 3♂. 2♀, in that vegt.  
along side of trail, from than

previously. Schistocerca 1 juv. on  
leaves of trail-side vegetation. Micro-  
stylatum H31

Centropus 1♂ on foliage. Anaulacomena  
1♀ ditto 1♂ Crochus ditto. Occanthis  
juvs. ditto. Orth. 23 + 1178 = 1201

Other ins. 89 + 2965 = 3054

1930.66 As 1930.12 but VIII. 13. 1930

Am.

Orth. = 1201

Other ins. " + 3054 = 3065

1930.67 Same as 1930.3 but

VIII.13.1930.

from trail side veg  
♂ Chorisomima beata, Paratettix

snapt from damp ground at first  
water trickle (Puña Blanca) Eumastix  
juv. only on vegetation. Striking  
Clypeulellids a few males in low  
vegetation against rock wall.

Sphenarium - juv. only in foliage.  
snapt. juv. Schistocerca on foliage.

Crochus sp. 1♂ snapt - trail side

Imoara sp. 1 juv. " " "

Oecanthus - juv. " " "

Nexatra 1 juv. " " "

Orth. - 19 + 1201 = 1220

Other ins. 71 + 3065 = 3136

---

1930.68 As 1930.12 but VIII.14.1930.

Am. Orth. = 1220

Other ins. = 17 + 3136 = 3153

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1930. 69 Same as 1930. 27 but  
VIII. 14. 1930. Limping little  
production. Pras. 18 + juv. ♀

shaken from same clump of dead  
leaves as furnished shelter for species  
primarily. Chorizoneura, ♂ & ♀ from  
bromeliads and hanging dead leaves.  
Juv. black spotted from dead under  
piece of dead wood on ground.

Adult ♂ Lernae (small species)  
beaten from stems and foliage.  
Enopionea sphulbelli ♂ & ♀  
numerous on ground and in low  
cane locally. Ads. + juv. Rhyss  
lunastri, ♂ & ♀, numerous juv.

taken much as preceding but usually  
near dead tops and less foliage -  
beating. Juv. Pseudophyllids shaken  
from bromeliads (one). Anabropsis  
from under cut bank - further  
work produced no more.

Ads - 56 + 1220 = 1276  
Other in. 34 + 3153 = 3187

1930.70. Rosario, Honduras.  
5150 feet. Aug. 15, 1930.

*Ischnoptera* sp. under boards  
in shed. Moths at light at  
club. Cuth.  $1 + 1276 = 1277$

Other ins.  $30 + 3187 = 3217$

---

1930.71 Pena Blanca, Rosario,  
Honduras. 5900 feet. Aug. 15, 1930.  
(C.B. moth.)

Moths about mine buildings  
attracted by lights.

Cuth. = 1277

Other ins.  $28 + 3217 = 3245$

---

1930.72 In pine belt, below  
Guacamayas. Same as 1930.42.  
4100-4200 feet. Aug. 15, 1930.

Large *Neobattella* ♂, ♀ + juv. all shaken  
out of dead, hanging palm leaves. Juv.

*Pseudomops* beating from foliage

+ from dead palm leaves. *Chorismene*  
♂ ♀ foliage + palm leaves. from

*Chorismene* 1 ♂ beaten from low



tree foliage. Glabrous pseudomopid  
shaken from dead palm leaves.

Stenomyza sp. ad. - juv. ditto.

Juv. Stagnomantis beaten from  
foliage. All Tettigids - species

4? of Paratettix, Telmotettix &

Tettigidea ~~beaten~~ swept from

bar<sup>gently</sup> sloping rock exposure on  
very short grass margining

same - abundant. Orophulella

punctatula abd. in <sup>short</sup> grass. Brilliant  
orophulellid 1 ♂ in low cane.

Sphenarium-like few juvs. only in

~~low~~ low brook. Encarsia 1 ♂ swept  
from foliage. Pseudophyllids 1 ♂

& juvs. all shaken from hanging  
dead palm leaves. Cycloptilum

all ad. & juvs. from ditto. Pale

Anaxipha ditto.

Orth. 113 + 1277 = 1390

Orth. ins. 81 + 3245 = 3326

1930.73 Rosario, Honduras.  
5150 feet. Aug. 16, 1930. At  
light in A.M. Ischnoptera  
dead on veranda of house.  
Pseudophyllid with moths  
and Cypris at club lights.  
Orth. 2 + 1390 = 1392  
Other ins. 44 + 3326 = 3370

1930.74 Peña Blanca, Rosario,  
Honduras. 5900' Aug. 16, 1930.  
(CBW) Moths attracted by light.  
Orth. = 1392  
Other ins. = 11 + 3370 = 3381

1930.75 Same as 1930.73 but  
VIII. 17, 1930.  
Orth. = 1392  
Other ins. = 19 + 3381 = 3400

1930.76 Lencitilla, near Tela,  
Honduras. Elev. 80 feet. VIII. 23,  
1930. Immediately about house, picking  
beating and sweeping, garden.  
Anaplecta 1 ♂ swept from hanging  
vine tangle. Chorionema 1 ♀  
ditto.



Brachia 1♂ on outside of window  
screen. Tettigidea sp. 1 on  
low vegetation. Ceph. punctata,  
few in tall grass. Ammicrus  
~~Rithocentrus~~  
sp. 1 juv. ♀ swept from hanging  
vine tangles. Aspilota sev. all  
juvs. in tall grass. Phaneroptera  
sp. 1♂ 1 juv. on creeds a tall  
grass. Anaulacomera sp. 1 ♀  
ditto. Phlugis sp. 1♂ ditto.  
Conophalus juvs. common  
in tall grass, few adults, 1 ♀  
taken. Anaxipha sm. brown  
species numerous on low  
tree foliage and in hanging  
vine tangle. from Anaxipha  
1♂ 1 brachia from low tree  
foliage.

$$\text{Arch. } 21 + 1392 = 1413$$

$$\text{Other vis. } 104 + 3400 = 3504$$

1930.77. Same as 1930.76 but VIII.

24. Work in second growth  
rain forest along stream,  
with bananas, coconut palm  
& bamboo.

Neoblattella mahua fr. very numerous  
in hanging dead frarums and  
banana leaves, associated with E.  
abdomen-nigrum & N. debens group.

Neobl. debens group moderately  
numerous in ditto. Neoblattella ♂  
occasional in ditto. Chromatonotus  
sp. ditto. Epilampra aldo-nigrum  
abundant in dead hanging banana  
and frarums leaves. Pseudophyllodromia  
sp. numerous sweeping low foliage

Stagmomantis bolina (?) ♂ swept  
from low foliage. Tettigids swept  
from dead leaf stems fringed  
with frarums and leaf tangles  
in second growth forest. Amblytropidia  
species occasional in grass and  
low weeds on edge of second  
growth forest. Alysi. pennata



occas. ditto, mostly immature.  
Lactista sp. one taken on bare  
soil of wall. Cromileia adts.  
scarce, juvs in numerous stages  
in grass and low weeds, also in  
forest. Amnicoris sp. 1 ♀ & 1 juv.  
empt from second growth forest  
foliage. Crophus sp. in grass  
& tall weeds on edge of end fr.  
forest. Amantacommia one empt  
from foliage in same forest.  
Concephalus adad. in same place  
as Crophus - Plagiis juv. in same  
habitat. Light & dark Blacus ephas  
shaken from banana and guavano  
leaves, juv. amphiacnotid and  
large Crochard shaken from  
hanging dead guavano and  
banana leaves. juv. Pseudophyllis  
all from ditto.

Orth. 94 + 1413 = 1507  
Other ins. 53 + 3554 = 3557

---

Same night. At house.

Moths inside of net. Paroc-  
canthus ditto. Beetle in  
house.

Orth.  $1 + 1507 = 1508$

Other ins.  $7 + 3557 = 3564$

1930.78 ~~Sanchez~~ Lancetilla,  
Honduras. VIII. 25, 1930. Elev.

100-250 feet. All taken in low  
rain forest unless otherwise  
indicated.

Blacus americanus 1 ♂ + 4 juvs. beaten  
from hanging dead leaves of tree  
with small leaves in fruit. Pseudo-  
phyllodromia beaten from foliage in  
forest. Supella one in house at mess,  
elev. 100 feet. Anaplecta one pale species  
in forest, from hanging dead leaves l.  
Anaplecta mex. <sup>from under side of</sup> ~~type beaten from~~  
~~fallen dead tree trunk.~~  
~~foliage in forest.~~ Euryctes juv. running  
in dead leaves in forest floor. Chromatomyia  
♂ from hanging dead leaves in forest.  
Neoblattella detrita f. ♂ + ? ♀  
from ditto. Stagmomantis juv.



from under foliage in overgrown banana  
patch on floor of valley. Juvs, walking  
stick beaten from low foliage in  
forest. Tettigids all from bare  
soil spots in sunlight holes or along  
trail in forest. Amblytropidia among  
mosses in overgrown bananas on  
valley floor. Leptomermithys 2 ♀  
on low vegetation in forest. Rhachicreagra  
2 juvs. ditto. Amnicoris 1 juv. ♂  
on under foliage in bananas on  
valley floor. Comitia a few, in  
forest and in overgrown bananas on  
valley floor. Orophus common  
in overgrown bananas on valley  
floor, few in forest proper, one of  
these (taken) being in the uncommon  
brown phase. Anaulacomera 1 ♀  
only, in forest on low foliage.  
Brown pseudophyllid from under  
side of leaf of palm in forest.  
Concephalus sp. mainly outside  
of forest in under and grassy  
areas, and in overgrown bananas.

Black masked ~~♂~~ *pyllacid* beaten  
from low vegetation in forest.

• *Uthia pyllid* picked up from foliage  
at forest border. *Cycloptilum*  
1♂ beaten from forest foliage. Black-  
kneed juv. cricket from hanging  
dead leaves in forest. 1♂, 2♀

*Ectonus* type *pyllid* beaten from  
forest foliage. *Nemobius* sp. beaten  
from grass and weeds along trail  
through overgrown banana on  
floor of valley. Blackest, pale,  
medium-width type, and broad  
type. species of *Cyrtus* *Anaxipha* (4)  
all beaten from foliage or taken  
from dead leaves in the forest.

1 *Ripipteryx* juv. from foliage in forest.  
juv. *Eusirtus* beaten from forest foliage.  
Orth.  $98 + 1508 = 1606$   
Uthia ins  $49 + 3564 = 3613$

Same evening at house Elev. 110 feet.

*Parocanthus* 4♂; 3♂ & 2♀ *Parachloris*;  
3 *Mollath. detusa* fr. all on screen.

Orth.  $7 + 1606 = 1613$   
Uthia ins.  $9 + 3616 = 3625$



1930.79 Same as 1930.77 but  
VIII. 26, 1930. Elev. 75-80 feet.

In trail edge vegetation, on green  
bananas, in bamboo and heavy vine  
tangles. Pseudophy clodromia from  
dead banana leaves. Three species of  
Neoblattella from same, from  
old bamboo sprout sheaths, from  
hanging dead leaves of various  
character. Chromatomyia or Cairnomyia  
(?) from dead banana leaves and  
sheaths of bamboo sprouts. Amphibius  
black species from dead banana  
leaves. Hypomyza sp. from dead  
bamboo sprout sheaths. Cephus  
punctatus 1 ad. in short grass.  
Amnicola juv.

insect from  
foliage.

Cephus abdo-niger from  
dead banana leaves.

Rhachicera 1 ♂ beaten from  
heavy tangled foliage - not in  
fruit. Tropidomyia sp. 1 ♀  
insect from low tangle of vines  
and weeds at gate of river

place. Conocéphalus sp. swept from  
long grass. Juv. brown pseudo-  
phyllids shaken from dead banana  
leaves. Phlugis swept from foliage  
and short grasses. Gryllacris-  
masked species, 1 ♀ swept from  
foliage. Nemobius sp. shaken  
from leaves. Synphyllophorus <sup>varians</sup> <sub>NH 32</sub>  
swept from under tangles. Anaxipha  
2 species, ditto and shaken  
from hanging dead leaves.

Orth. 49 + 1623 = 1672  
Orth. ins. - 59 + 3625 = 3684

1930.80 As 1930.76 - same habitat.  
VIII. 27. 1930.  
Anaplecta dark species - one beaten  
from hanging vines. Caribbatta nebulosa  
type, one ditto. Supella ♀ in  
mess house. Telmatetix beaten  
from ~~low~~ low weedy spot. Urophyllo  
punctata few in grass. Rastista  
pellepidus in walk. Rhachicreagra



juv. ♀ beaten from hanging vines.

Tropidurus 1 juv. from the

same spot at gate where adult  
was taken. Crochus a few  
in meads and tall grass.

Conocéphalus imm., mainly juv.,  
in grass and meads. Anaxipha  
pale sp. beaten from hanging  
vines & foliage.

$$\text{Orth. } 16 + 1672 = 1688$$

$$\text{Orth. imm. } 36 + 3684 = 3720$$

Same afternoon. Similar habitat.

Black Anaplecta beaten from hanging  
dead banana leaves. Pseudophyllo-  
demia from ditto & guavano

leaves. Noth. rubra group, N.  
ditton group & other Noth. all  
from banana leaves & guavano

leaves. Pseudomiopteryx  
♀ from dead banana leaves.

Arphulella punctata in ranch

grass & weeds. Rhachicnagra

Juv. ♂ beaten from foliage.

Amicrus ♀ ditto. Aspilota

few adults, numerous quite immature  
general. ? ? Brumera juv. ♀

beaten from tall rank grass &  
weeds. Anaulacomera ♂ beaten

from foliage. Juv. brown pseudo-  
phyllid from dead banana

leaves. ♀ Archard cricket

ditto. Anaxipha dark species  
and pale species, ditto.

Orth. 27 + 1688 = 1715

Other ins. 49 + 3720 = 3769

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1930. 81 Same as 1930. 80 but  
VIII. 28. 1930.

Anaplecta dark sp. from hanging  
dead banana leaves. Pseudophyllo-

dromia ditto & from foliage. Camblatta  
maculicollis from dead leaves.

Metblatt. various type & ditersa  
type, also smaller species of all



from dead banana and guavava  
leaves. Juv. Eurycotis - dead  
banana leaves. Amblytropidia ♀ -  
very few in grass - used along  
narrow trail in abandoned  
banana patches. Comilia scarce  
as adults, numerous in all immat.  
instars - general as usual. Rhaclia-  
creagra 1 ♂ swept from upper  
surface of shrub foliage. Crochus  
numerous in grassy and weedy  
spots. Phlegia few on weed & tree  
foliage. Insura 1 juv. beaten  
from dead banana leaves.

Conocaphalus general in weeds  
& grasses, mostly juv. Hapithus  
1 ♂, 1 ♀ beaten separately  
from dead banana leaves.  
Cyrtopithecus 2 ♀, ditto.

Orth. 31 + 1715 = 1746  
Other ins. 76 + 3769 = 3845

1930.82 Same as 1930.81. but  
VIII. 29. 1930.

• Carillatella of robust. type and ♀♀  
of 3 sps. of Problattella all shaken  
from hanging dead banana leaves.  
Epit. abd.-nigrum 1 ♂ 1 ♀ ditto.

Bacteria large ♀ in ~~long forest~~  
thicket along stream. 80 feet (C.B.W.)  
Ceph. punctata abundant in short  
grass along trails. Ambl. sp.

1 ♀, 1 ♂ seen only, in woods and

• tangles near trails. Telmattex  
♂ ♀ along trail, sweeping low  
can. Large brownish pseudophyllid  
♀, shaken from hanging dead  
banana leaves. Nemobius 1 ♂  
swept from under grasses. Pale  
Anaxepha and Symphylorhynchus  
ditto. Hapithus 1 ♀ from dead  
banana leaves.

Orth. 46 + 1746 = 1792

Other ins. 50 + 3840 = 3890



1930.83 Same as 1930.78 elev.  
100 - 400 feet, VIII.30.1930. This  
area of forest, more largely  
palms than the adjacent area  
worked as 1930.78.

Neoblattella nahua type. All taken  
from hanging dead leaves, chiefly  
palm. N. diversa sp. ditto.

N. other sp. 1 ♂ ditto. Caribatta near  
reticulata numerous ditto, also  
swept from foliage and sev. from  
hanging dead banana leaves at  
foot of slope. Nyctima large sp 1 ♂  
from base of dead palm frond.

Epit. aspera type, 1 ♂ beaten from  
dead palm leaf. Stagmomantis  
sp. 1 juv. from foliage in forest. Choro-  
doris sp. 1 ♂ taken in early morning  
on wire net at mess hall (Mr. Hatch).  
Walking stick with spinose subg.  
pl. (♂) beaten from hanging  
dead twigs and leaves matted together.  
juv. walking sticks taken from

dead palm leaves or swept from  
foliage. Plectroscelus adults  
• juv. swept from dead leaves  
on forest floor. Amphitropidia 1 ♀  
from under at low edge of forest.  
Machacera 1 ♀ from bare rock  
along Llanitilla River (elev. about 80  
feet), juv. from bare ground at  
forest edge. Cnemidaria num. in  
forest. Leptomurinthopora 1 ♀  
from foliage. Crochus numerous  
particularly at the edge of the  
forest & before reaching edge of same.  
Large dark glabrous cricket, 2 ads.  
♂ and immat. individuals. Speckled  
lygn. cricket ♂ swept from  
foliage in heavy forest.  
Crochus sp. ♀ swept from foliage. Hygrocnemidius (?)  
sp. from forest floor in dead  
leaves and from low forest  
foliage. Six species of Anaxipha

from floor  
of forest in  
dead leaves.



(one green) all script from  
forest foliage.

Orth. 73 + 1792 = 1865

Other ins. 36 + 3895 = 3931

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1930. 84 Laumbilla, Honduras.  
Elev. 80 feet. VIII. 31. 1930. In  
house in day time. Ep. l. albe-  
nigrum. B. Prieto on screen  
of house in early morning. Crochus  
on path in evening

Orth. - 3 + 1865 = 1868

Other ins - 2 + 3931 = 3933

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1930. 85. Same as 1930. 83 but  
up to 600 feet. Fern palms  
abn 400 feet. IX. 1. 1930.

Mott. valina type script from <sup>Curat's</sup>  
foliage and from dead leaves <sup>juv. from</sup>  
Caril. reticulata type <sup>dead leaves</sup> ditto. Anaplex <sup>no ground</sup>  
mex. type foliage. Pseudophyll.  
sp. foliage. Strg. sp. juv. from  
foliage. Large B. Bostra script  
from foliage. juv. phasmod

beaten from dead palm leaves.

♀ Pseudomopteryx ditto.

Amlytop - 1♂ from muddy vegt.  
at edge of forest. Aspilota in  
sunlight holes in forest and in  
banana scrub. Plectonotus  
sweep from leaf stems ground  
in dense shade of forest. Ami-  
cris juv. sweep from foliage at  
edge of forest. Machrocera juv.  
on bare stems along Laetitia  
Rim - no adults seen. Juv.

Rhinochrysa beaten from  
low canopy forest. 1♂ large dark  
glabrous cricket from ground  
can. ♀♀ (?) + juv. of same, ditto.

Speckled winged cricket 1♂  
3 ♀♀ (juv.) ditto. Pileated  
black leg. cricket 1♂, ditto.

Bicolored Uroschisma type  
from bamboo stalk in bamboo  
grove. Hygroplitis from



ground corn - chiefly dead  
leaves. Fin species of Anaxipha  
all from ground corn or low  
foliage in forest. Pale yellow  
juv. cricket from forest foliage.  
Anaulacamera sp. from foliage.  
Juv. green pseudophyllid  
from hanging dead leaves.

Orth.  $112 + 1868 = 1980$   
Other ins.  $57 + 3933 = 3990$

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1930.86 Cascutilla, Honduras.  
Sept. 18. 2. 1930. Picking &  
sweeping along trails through  
valley floor that grass & weeds,  
overgrown banana patches and  
second growth scrub.

Phalictus <sup>25.1 ♀</sup> from hanging dead  
banana leaves. Juv. dark.

Anaplecta ditto. Chorisomera

sp. 1 from hanging dead  
guarano leaves. Pseudophyll.

1 from foliage of tree.

Neoblattella 1 ♀ from hanging  
dead banana leaves. Paratettix  
from damp spot in trail.

Leptulella punctata in weeds &  
grass, numerous. Amblytropidia  
sp. uncommon & local in low  
cove. Machaerocera 1 ♂ from  
sandy spot in trail. 1 juv. also.  
Aidemona 1 juv. in short grass.

1 juv. Rhachicera swept  
from shrubbery. Crochus  
locally numerous in low  
cove. Cnecophalus abd. in  
same. Ripipteryx a few in  
bare spots - all very small.  
Anaxipha pale species from  
shrubby foliage and in dead  
banana leaves.

Orth.  $40 + 1980 = 2020$   
Other ins.  $69 + 3990 = 4059$



1930.87 as 1930.83 but ~~up~~  
~~to~~ 200 feet. C. B. Worth.  
IX. 2. 1930.

Orth. 2020

Orth. in.  $2 + 4059 = 4061$

1930.88 Lausitilla, Honduras.

IX. 3. 1930. Eastern border  
forest along pipe line trail to  
reservoir. Elev. 100-250 feet.

Pseudophyllodromia swept from  
foliage of low corn in forest  
Neotl. nahua group ditto. Chorismura  
broad, hyaline margined species.

1♂, ditto. Juv. mantid, ditto.

Juv. phasmids, representing at least  
two species, ditto. Plectonotus

swept from dead leaves and  
bare spots of forest floor.

Anthrop. ♂ & ♀ small series, 1♂ + 1♀ in  
citra, taken in low woods along  
trail through mangrove swamp  
near forest edge. Machaeris  
sp. 2♂, 1♀ on bare stones along

canoe of Lacumbilla River, all  
seen taken. Heliastur sp., same

comments as for Machanocera,  
taken together. Uremia sparingly  
in forest and through mangrove  
savanna, in low bush, vigorous  
juniper, also flying. Leptomeria  
prova sp., 1♂, 3♀♀ locally in forest,  
preferably on underside of broad  
leaves of low vine, very vigorous  
juniper, dense. Rhachicera sp.

1 juv. in sunlight hole of forest  
on exposed foliage. Microgaster  
perys sp. 1♂, 1 juv. in foliage  
(low) in sunlight hole just  
below reservoir. Chromocoris 1  
tattered ♀ on foliage on slope  
of small gulch in forest.

Crotophaga more numerous about  
forest edge. juv. Neomorph  
in tall weeds along trail  
through mangrove savanna.  
Mottled leg. ceteroid type



1♂ & juv. ♀ swept from live  
ground cover and from dead  
leaves. Anaxipha, prob. 3 species,  
all from foliage of corn up to  
4 feet high. Other gryllids all  
from foliage. Hippemidius 2♂, 1♀, all  
swept from dead leaves and  
very low cover on ground  
low cover.

Orth. 69 + 2020 = 2089  
Other inv. 34 + 4061 = 4095

---

1930.89 As 1930.85 but up to  
700 feet. IX. 4. 1930.

Sweeping dead leaves and very  
low cover on floor of forest. Hops,  
beating palm leaves and leaves  
of other next stage of high of  
undergrowth, vines on trees and  
hanging dead leaves.

Pseudophyll. swept from foliage.  
Holl. nahuat type from  
palm leaves, hanging dead  
leaves & rarely low cover.

Holl. detrita type swept from  
higher foliage. Utter sp. f. Holl.  
ditto. Carillatta rebulista  
type, from higher foliage and  
from ground cover, both dead leaves  
on ground & low cover. Juv. Euryctes  
swept from ground. Anaplecta  
sp. swept from foliage. Chorionema  
an addit. species with dark  
mantle, from foliage. Short-winged  
Stagnumantis ad. ♀♀ & juv.,

all swept from undergrowth  
foliage. Juv. walking stick  
from vine stems. Plectonotus  
ad. : juv. swept from forest  
floor, in dead leaves <sup>200-300 feet</sup>. Platypterus  
sp. 1♀ from ditto, at 500 feet.

Cumastax sp. 3♀ at 700 feet in  
thick stand of low, glabrous and  
water leaved plant. No other seen  
after extensive search.

Amelhytrop - 1♀ in undergrowth along  
trail at edge of forest. 80 feet.



Machacera sp. 1♀ in weeds at  
edge of bare stone area along Rio  
Rancharilla, 75 feet. Ophthalmo-  
lampis sp 1♀ in low ground  
corn plants at 200 feet. Extensive  
search revealed no others - this  
one sluggish, jumped but little.

Chromacris sp. 1♀ at 650 feet  
on foliage of tall undergrowth  
Leptomeria theophrasti sp. 1♀ at same  
pt. as Chromacris. ?? Prionacris

? juv. from vines growing on trunk  
of tall tree. Microtylops  
1♂ in low ground corn at 600 feet.

Anaulacomera sp., 1♀, swept from  
foliage. Glabrous tegm. gyllid  
1♂ at 300 feet in ground  
corn. Short-winged (lat.), thinning  
juv., numerous, all juv?  
at 300-600 feet, in ground  
corn. Bicolored tegm. gyllid  
leaf, 300-600 feet, swept from  
foliage chiefly, but also in ground

com. Myzomachus a few  
ads. from dead leaves and fr.  
com vegetation Anaxipha,  
at least 3 species, from ground  
com and foliage of low  
undergrowth. Cyclopilius 1 ♀  
from ground com.

Orth. 89 + 2089 = 2178  
Uther vis. 30 + 4095 = 4125

---

1930.90 Same as 1930.88 but  
IX. 5. 1930.

Lupella ♂♂ in moss ball in  
Am. Anaplecta mex. type one  
from shrub foliage in forest.

Pseudophyll. ditto. Charisma

very pale sp. 1 ♀ from ditto. Small  
specimens of Stagnumantis 1 ♂ &  
3 juvs. from shrub foliage on  
foliage of low ground com.

♂ walking stick with stylate  
subg. spurs. from low ground  
com foliage. ♀ with lobate



median femora swept from  
thrilling foliage, near together  
juv. ditto. Plectropterus from  
bare ground and low corn near  
trail. Platytettix 1 ♀ from moss-  
covered boulder alongside of trail.  
Telmotettix 1 ♂ from bare trail.  
Amblytropis 2 ♂ from weeds along  
trail in overgrown bananae near  
forest edge. Leptomeria thopma  
local and not common in low  
corn, jumping very actively &  
vigorously. Chalcidocnema similarly  
local but on the tops of medium  
shrubby and on stems of same,  
not as actively jumping as Lepto.  
Microtylopsys 1 ♀ from upper  
surface of <sup>low</sup> shrub foliage, no  
others seen. These three genera  
altho occurring in the same  
general type of conditions have  
somewhat different ecological  
niches. Lepto keeps low  
down, either on the upper or

under side of the large type  
of leaves it prefers and jumps  
with great rapidity and for  
a long distance. <sup>Is a great dodger.</sup> Rhachis.

hops in taller shrubbery on  
the tops of the leaves or on  
the upper stalks of or stems  
of the plant. It is more sluggish  
and jumps with a far greater  
effort. Micro. hops to the upper  
surface of the leaves of the  
shrubs of medium height  
it likes, jumping far and  
with little effort. Crochus  
~~falls~~ but few in forest, several  
brown phase, common outside of  
forest. Conocéphalus common along  
trail in megamall bananas outside  
of forest. Immat. green pseudophyllid  
surpt from low cane in forest <sup>thick</sup>  
but near its border. Minutia  
1 juv. from low ground cane  
foliage just within forest.



Agymnecyrtus all swept from  
low ground cover foliage and  
from dead leaves on ground.

Anaxipha, at least 3 species,  
from ground cover foliage and  
foliage of medium height shrubby.  
yellowish & brown juv. pyllid  
from medium height shrubby  
foliage. Other and dark brown  
or rufous hopping on dead  
leaves on ground. Juv. Metopon  
swept from low foliage.

$$\text{Orth. } 80 + 2178 = 2258$$

$$\text{Orth. ins. } 39 + 4125 = 4164$$

---

1930.91 As 1930.89. Same elev.  
but IX.6.1930.

Anaplecta pale sp. from  
ground cover. Anap. mex. type  
ditto. Pseudophyll. from  
foliage. Orth. rubra type  
from hanging dead leaves.  
Carib. rub. type from foliage.  
Supella from table in meso

hall. Chorismeneura add. sp.  
with white pencilling, swept  
from foliage of forest under-  
growth. Juv. Phasmoda  
beaten from foliage. Platynotus  
taken from bare ground & low  
corn of forest & glen. Telmia-  
letta one male from lower trail  
150 feet. Emmastax ♂♂, ♀  
from same spot as taken 1930.  
♂♀, no third seen. Lepto-  
meria thoprona sp. a few 450-700  
feet, 2♀ taken. Rhachinera  
1♀ taken from foliage at 600  
feet. Juv. ? Amicris 2 swept  
from low corn at 500-600 feet.  
Orophus - ~~from~~ specimens from  
trail at 75 feet through mangrove  
bushes, brown from  
forest at 250 feet. Acantho-  
mura from foliage at 250  
feet. At least 3 species of



Anaxipha from low ground  
corn and higher foliage  
150-200 feet. Hygrocnemobius  
from low ground corn foliage  
& dead leaves on ground,  
same elevations. Striped  
glabrous cricket, dead leaves  
& low ground corn foliage  
200-300 feet. Bicolored legu-  
my leaf ditto. Large Amphispiza  
sp. from tree trunk at 600  
feet. Large ♀ cockroach  
snapped from foliage of fair-  
sized mulberry.

Orth. 104 + 2258 = 2362  
Other ins. 47 + 464 = 511

---

1930.92 Same as 1930.86 but  
1X.7.1930.

Neohatt detrusa type from  
hanging dead banana leaves.  
Carib near rebutia me ditto.

Juv. ♀ Anaplecta ditto. 2 juv.

Brumneria(?) script from  
shoulder high foliage. Para-  
tettix from ground of trail. Amly-  
2 ♂ from low foliage along trail.

♂ & ♀ Amnicus from vine covered  
used tangles - no other

seen. Juv. Leptocramerus from  
same ex. habitat as others prev.  
taken - exten. search revealed

no more. Conocoph. generally  
dist. in low weeds, along trails.

Phlugis 2 in tree foliage.

Viadana juv. same habitat  
as Amnicus. All pyllid  
from shrubby & tree foliage.

Orth. 27 + 2362 = 2389

Other inv. 60 + 4211 = 4271

---

1930.93 As 1930.84 but 800-  
12 feet - IX. 7. 1930 - C. B. Worth  
coll.

Orth. 8 + 2389 = 2397

Other inv. 31 + 4271 = 4302



1930, 94 As 1930. 89 but 1x.  
8. 1930.

Anaplecta mex. type sweeping  
from low ground cover. Anaplecta  
pale type, same. Choris meura  
pale sp. resting on upper surface  
of low ground foliage (6-8" from  
ground). Pseudophyll. on  
higher foliage, as usual. Carib.  
nebul. type swept from low  
surface cover. Juv. Pseudonioptra  
sweeping on low foliage, Juv.  
phasmids swept from foliage.  
Platromerus numerous on  
dead leaves and low cover of  
forest floor. Andlytrop. 1♂  
in weeds in abandoned banana  
before reaching forest. Emmactax  
1♀ in same habitat as  
previously - all seen after  
careful search. Romalis  
Chrysomelids  
1♂ at 600 feet, from foliage  
shoulder high. Leptomerinthoprona

4♂, 3♀, from foliage 1-4' high, at elev. 400-700 feet, very active as usual. Rhachicreagra 1♀ head high foliage at 600 feet. Winged Rhicurderma swept from ~~ground~~ corn at 300 feet - possibly fallen from vines? Crochus none seen in forest - common along trail through ~~undergrowth~~ banana. 80 feet Gryllacris with species swept from shoulder high foliage at 600 feet. Juv. from pseudophyll. swept from low foliage. Stabium short-winged gryllid 1♀ swept from low ~~ground~~ corn. Bicinctus ecteoid and linate ditto same habitat. Small neuroripid sp. ditto. Hygrocnemidius ditto. Anaxipha about 4 species from foliage of ground ~~corn~~ corn and of undergrowth as high as



maist.

Orth. 91 + 2397 = 2488

Utherins. 33 + 4302 = 4335

1930.95 Same as 1930.88 but.

IX. 9. 1930.

Blacus americanus 18, 1♀, <sup>Epil. abd. rufum one in</sup> <sup>in am. other</sup> <sup>in dead banana</sup> <sup>hanging</sup>

from <sup>hanging</sup> dead leaves (small). Cair.  
reticulata type swept from low

ground com. Molt. sm. species  
from foliage <sup>in banana</sup>; Molt. halina from  
hanging dead banana leaves  
in overgrown abandoned bananas.

Pseudophyll. swept from foliage.

Agrom. juv. from forest foliage.

Juv. phaeus. from ditto.

Plectroctes from forest floor,  
dead leaves & humus - Anthro.

♀ from foliage along trail

in overgrown abandoned bananas.

Demilia generally det. as

usual. Phaenocarpa localized

and in fair numbers in one  
area of tall windy vegetation  
(6-8 feet) resting on the  
upper surfaces of the broad leaves  
and the upper main stem  
of the plant. Microtylopteryx  
but one seen <sup>or taken</sup> on low foliage  
near Rhachicreagra area.  
Rhachicreagra ~~area~~ <sup>area</sup>  
Leptomeranthopora ~~area~~ <sup>area</sup> on  
low foliage. Chromares 1 on ~~low~~  
~~shoulder~~ ~~of~~ ~~the~~ ~~plant~~

*Leptomeria thopra* etc. in  
low foliage. *Chromares* 1 on  
shoulder high foliage. *Crochus*  
all collected from weeds in  
abandon. bananae. juv. pseudoph.  
resting on dead leaves. *Procon-*  
*cephalus* 1 from grass through  
abandoned bananae. *Anacardium*  
1 ♀ from low foliage in forest.  
*Cumyph. ruminans* in grass  
+ weeds through bananae.

Large ♀ perispermous flyling  
resting on dead banana leaf  
along trail. Wenatchee 1 ♀



in mess hall in Am (introduced?)

Amazilia three species  
from low and surface cover  
foliage in forest.

With  $58 + 2488 = 2546$

Other in  $43 + 4335 = 4378$

---

Matto Grosso

1931





1931.1. Hescalvados, Mato Grosso.

Brazil. Rio Paraguay. (V.R.)  
June 23, 1931. ~~Trope~~ Diedronotus <sup>Elev. 500 feet</sup>

laempro <sup>(1)</sup> type on bush about 2 feet  
high in dry scrub. Encoptera on ground  
under heavy low scrub.

Orth. 2 = 2

Other insects without notes approx. 15 = 15

---

1931.2. Hescalvados. June 26, 1931.

Amurexacha in dusty road. Sphingid  
moth in room at night.

Orth 1 + 2 = 3

Other insects 1 + 15 = 16

---

1931.3 Hescalvados. June 27, 1931.

Paractagmatoptera brought to  
me by boy.

Orth 1 + 3 = 4

Other ins. 16.

---

1931.4 Hescalvados. June 28, 1931.

Butterfly in rim under fruit  
can. fly from Crax. Beetle  
attracted to light.

Orth = 4

Others 16 + 3 = 19

---

1931.5 Hescalvados, M.G., Brazil.

Prior to June 1st in 1931 between  
April 1 - June 1, 1931. Serge.

Orth 0-4

Other ins. 31 + 19 = 50



1931.6. Mesocricetus, M. J., Brazil

VI. 19. 1931. J.R. Afternoon  
work along road to matroom for  
about a mile. Beating, sweeping  
& picking in mesquite scrub along road.  
Traggle cane on borders of road,  
about drying ponds and edge of  
tree scrub.

Juv. Colbrid mounted swept from cane  
cane.

Macynetes 1 juv. swept from ditto

Paratellix 2 ad. 2 juv. from damp  
ground about border of drying depression.

Cryptulella punctata Numerous  
in both brown-green (♀ only) phase  
in short grass - low open scrub.

Conurosecha 4 - solely in dry, dusty  
sandy road. Protectively colored when  
at rest. Stenopola juv. of var.  
size in habitat with Cryptulella,  
local only. Leptogma 1 only, all seen,  
from body of spawning mole, about  
2 feet above ground. Neodronotus  
1 ♀ only in dry open sun. Parasch-  
roptus numerous in leaf colonies,  
active, no pair in cortex when  
taken. Trichactylidae along  
margin of drying pond or wet  
spot.

$$\text{Arth. } 42 + 4 = 46$$

$$\text{Arth. etc } 50 + 33 = 83$$

1931.7. Hescalandros, M.G., Brazil.

VI. 1. 1931. Periplaneta in my room. Moth - beetle at light.

$$\text{Orth. } 1 + 46 = 47$$

$$\text{Other ins. } 2 + 83 = 85$$

---

1931.8 Hescalandros, M.G., Brazil.

VI. 2. 1931. Beetles at light at night.

$$\text{Orth. } = 47$$

$$\text{Other ins. } 2 + 85 = 87$$

---

1931.9 Hescalandros, M.G., Brazil.

VI. 3. 1931. Hecidromotus on top of bush 2 feet high in campo.

No effort to escape. Amurogryllus in house at night.

$$\text{Orth. } 2 + 47 = 49$$

$$\text{Other ins. } 87 + 1 = 88$$

---

1931.10 Hescalandros, M.G., Brazil.

VI. 4. 1931. From native children.

Parastagmatoptera, Paradechoplus

= hecidromotus.

$$\text{Orth. } 3 + 49 = 52$$

$$\text{Other ins. } = 88$$

---

1931.11 Same as 1931.10 but

VII. 5. 1931. In house. Syntrechus.

$$\text{Orth. } 1 + 52 = 53$$

$$\text{Other ins. } 88$$

---



1931. 12. Wiesbaden, M. G., Brazil.

July 8, 1931. M. Beating & trapping in old fields and small pastures along road, s. along Rio Paraguay for a few hundred yards. Cover mostly weeds and dried up weed stems.

2 *Chrysomura* beaten from low corn, not more than feet high.

2 juv. Blatted beaten from leaf fringe for trees on edge of tangle.

*Acanthopis* 1 ♂, 1 ♀ beaten some distance apart from weedy corn. Appan juv. much resembling ants common in same corn.

*Acanthops* juv. beaten from similar low weedy corn.

*Uphuliller punctata* *ultrigustores* and common.

*Parosca binasulata* a single ♀ in heavy weed corn.

*Dicrometes* *coscopand* then in fair numbers on ground and very low corn in weedy areas chiefly - none from seen

Paradichroplus numerosus on ground  
in weedy areas, more broadly  
distrib. than Dicranotus, some  
in coitu. <sup>juv. unus + stenopola also found.</sup> Juv. littig. + fyll. all  
beaten in same weedy areas.

Unth.  $37 + 53 = 90$

Unth. ins.  $66 + 88 = 154$

1931.13 Hescabados, M.G., Brazil.

VII.8 1931. Indian children  
collected Pseudophyllid.

Unth.  $1 + 90 = 91$

1931.14 Hescabados, M.G.,

Brazil. VII.8. 1931. Small  
mantis running in sandy road.  
Adult Stenopola on bare stem  
of low weed near Indian village.  
blodged about ring in usual fashion  
of longit. prickers. Not active.

Unth.  $2 + 91 = 93$

Unth. ins.  $154$

1931.15. Hescabados, M.G.,

Brazil. Wati? Coll. by Surge.  
+ Lepidoptera. 3 beetles.

Unth.  $= 93$

Unth. ins.  $7 + 154 = 161$



1931.16 Hescalados, M. G. Brazil.  
VII.10.1931. JR. Sulphur from native  
boy; shipper in house at night;  
other in day time.

Ueth. 93

Ueth ins.  $161 + 3 = 164$

1931.17. Same loc. + date as  
1931.16.

Xylocopa + mother. latter at night.  
Pisonolopha 3 - Indian children.

Ueth.  $3 + 93 = 96$

Ueth ins.  $3 + 164 = 167$

1931.18 Santa Rosa, Hescalados  
area, Mato Grosso, Brazil. VII.13.1931.  
In grass areas of campos, heavily  
grazed in part, small areas of wood  
but a portion of an acre with a few  
trees and thick scrub, generally a  
termite nest or so. Uethopleria almost  
entirely unnoted.

Scyllina 1 ♂, 1 ♀ adult, all seen. <sup>on ground.</sup>

Scyllenops 2 juv. in water preceding  
maturity <sup>on ground.</sup> all others  
smaller.

Paradichroplus 1 ♂, a  
pair also seen but escaped, on  
ground surface among grasses.

Tetanychnus

---

Call Miss Zahn.

~~Wm. W. W. 1-15-00~~

---

Heard chuk.

Ch. notes - type

of T. brew is

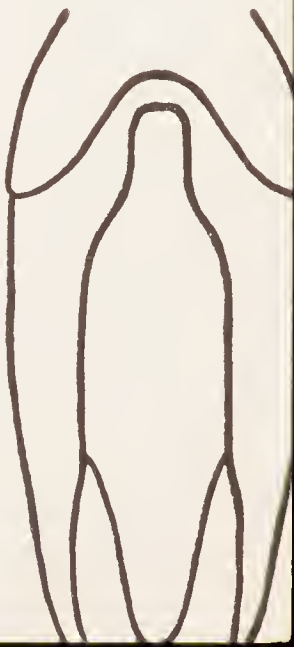
1931.20

unseen by

1931.25



view of aedeagus of *Trox tylos*.  
 covered with a yellowish-brown granule-  
 g. Interspersed over the body are  
 e hairs, which are a little more con-  
 tubercles. The underparts of the  
 the tibiae are reddish and shining.  
 other strongly reflexed laterally. On  
 line and just to the rear of the genae  
 excavated pit. Head rounded without



Orphulella punctata few adult, 1 taken.  
On ground - low cover.

Anaxipha 1 ♂ Asept.

Orth.  $14 + 96 = 110$

Other ins.  $6 + 167 = 173$

---

1931. 19. Santa Rosa, Hescalandos area,  
Matto Grosso, Brazil. VII. 14. 1931.

Vilma 1 ♀ on ground in area of  
heavy forest - forest island of campo.

Ranatra in swimming hole at Santa  
Rosa.

Orth.  $1 + 110 = 111$

Other ins.  $1 + 173 = 174$

---

1931. 20. Santa Rosa, Hescalandos  
area, Matto Grosso, Brazil. VII. 16. 1931.

In dry palm forest, with many strangling  
figs and undergrowth of low cactus,  
a ground, also like bromeliad, with  
narrow, serrate margined leaves.

Beaten done, stripping on small  
dry leaves on forest floor and individ-  
ual picking. Many trees already  
leafless, other in course of losing  
them. One tree in more open parts  
strongly resembles gumbo-limbo  
with curling, peeling papery bark.



Tettigids all in forest floor. *Conotia*  
flew several times and lighted  
on palm trunk in each case.

Palm in this forest mainly carozo  
or a near relative. *Cephalogamy*  
jumping in two corn of forest floor,  
the one taken all seen. *Emoptera*  
in fair numbers on forest floor in  
dead leaves - one hid in a curled  
leaf. Other immature fly this  
same habits. *Leptyma* on grass  
tuft in open camp. *Scaptomyza*  
at light coming of July 15.

$$\text{Arth. } 11 + 111 = 122$$

$$\text{Other ins. } 1 + 124 = 125$$

---

1931. 21. Descalvados, M.G., Brazil.  
July 13-18, 1931. Mrs. F.G. Crosby.

$$\text{Arth. } 122$$

$$\text{Other ins } 6 + 175 = 181$$

---

1931. 22. Descalvados, M.G., Brazil.  
July 19, 1931. J.C.

Birds at light

$$\text{Arth. } 122$$

$$\text{Other ins } 1 + 181 = 182$$

---

1931. 23. Santa Rosa, hiescalados  
Regim, M.G., Brazil. July 16,  
1931. M.

Grammaderia swept from grass.

Orth. E. 1 + 122 = 123

Orth. im. 1 + 182 = 183

---

1931. 24 Carne de Vaca, 8 m. S. of Santa  
Rosa, Matto Grosso, Brazil. July 28, 1931.

In pantanal grass on damp or wet ground.  
Leptysma in green, brown & purplish.

brown phases on pantanal grass.

Arundia, same - but 2 taken; all seen.  
Orthocentrus in same situation.

Orth. 48 + 123 = 171

Orth. im. 50 + 183 = 233

---

~~Ex~~

1931. 25 Santa Rosa, hiescalados  
Regim, Matto Grosso, Brazil. July  
31, 1931. In tall grass campo,  
some grazed and in open dry forest,  
with tree cactus, acacia, a few palms  
and much spiny and woody undergrowth.

Female Aemtoothopsis - juv. swept

from vegetation in dry forest.

Juv. Blattellid ditto. - all seen

Juv. Ammonia ditto - all seen.



Proscopids on woody stems of  
dry forest shrubbery - persistent  
search revealed only the two  
secured.

Amblytropidia numerous  
adult + juv. in camps + edge of  
dry forest, but particularly latter.

Centruxalis (?) juv. in dry forest  
on ground. Paratropis in dry  
forest in scant surface cover.

Urophora (?) in grassy camps on  
ground. Urophora one only  
in dry forest. Syllina ad. +

juv. in grassy camps, active,  
abundant. Leptyna (2 sp.?) abundant  
on tall grass of grassy camps,  
not at all wary and easily  
caught with hand - always

taking usual position of  
elongate, grass-loving grass.

Stenocranus 2 taken all seen -  
habitat as Leptyna.

Chlorothraupis 1 ♂ on ground

in dry scrub of forest. *Hyperophus*  
in grass of campo - all seen.

*Phylloptera* (?) in green

leaves of woody shrub in dry  
forest. *Pyllid*

juv. taken

from dry

forest scrub.

*Paradielphus*

juv. on ground in  
campo. juv.

*Microphus* on

ground in dry forest.

*Orthopt.* 86 + 171 = 257

*Orth. ins.* 28 + 233 = 261

1931. 26 *Carnes de Vacca*.

Same loc. as 1931. 24.

Juv. *Stomoxys* running on  
ground in palm thatched shelter.

*Orth.* 1 + 257 = 258

*Orth. ins.* = 261

1931. 27. Camp 20 m. S. of Santa Rosa.

Aug. 13, 1931. JAGR.

In tall pantanal grass and  
dry campo. *Acantiotherpis*

at light V.M. 12. *Ejus. Orth. ocellus*



beaten from tall campo grass.  
Orphulnia few in same. Leptocera  
 in fair numbers in tall pantanal  
 grass - dry campo grass, but  
 particularly former. ♀. Large  
 walking stick swept from  
 dry pantanal grass. 3 ♂ & 1 juv. & 1 juv.  
Hyperophora in dry campo  
 grass, adults apparently low down,  
 all swept. Tettigidea appar. from  
 ground betw. campo grass.  
 Orth. 30 + 258 = 288  
 Uther ins. 76 + 261 = 337

Ambly. 1 ♂ only  
 see in campo grass

1931. 28 Same as 1931. 27, same  
 date but attracted to light at  
 night.

- 1. Neoblattella
- 1. Scapheriscus on ground
- 1. Memobius .. ..
- 1. Brunneria flew in to lamp.

Gray on  
 fly VIII. 14.

Orth. 4 + 288 = 292  
 Uther ins. 31 + 337 = 368

1931. 29. Same loc. & conditions as  
1931. 27 but VIII. 14 1931.

Orthoderella 1 ad. ♂ + 1 juv. in  
pantanal grass of drier (more campo)  
character. Brummeria 1 ad. ♂ + 1 juv.  
in pantanal grass about four feet  
high. Cryptina 1 ♀ in shorter campo  
grass. One Onatocetix ditto.

Leptynoma in fair numbers in pantanal  
& taller campo grass, ads. & juvs.

Scyllina 1 ♀ in campo grass. Mo-

cruciphalus sp. 1 ♂ in pantanal  
grass. Cephalorocema 1 ♂ imp. from

Orth. 23 + 292 = 315 dry campo grass.

Other ins. 16 + 368 = 384

---

1931. 29 Same as 1931. 28 but  
VIII. 14-16. 1931. it is.

1 Truxalis luv. 1 Cephalorocema  
1 Hyperbaena 1 Remuria

a number of Tridactylus

Orth. 14 + 315 = 329

Other ins. 35 + 384 = 419



1931.30. Riosaltados, M.G., Brazil.  
Aug. 23, 1931. In dry scrub forest &  
open area. Exceedingly dry &

largely leafless except of saladinas.  
Prionolopha one ♀ on ground in  
patch of green brush. Heidronotus  
♂ & ♀ in dry brown scrub, on  
ground. Parabius - like walking  
stick beetles from dry forest  
area. Henopoda, ad. ♂ juvs. on bare  
ground - active, local, but few  
seen. Paradichroplus 1 juv. only  
on ground. Juvs. crickets taken  
from scrub.

$$\text{Certs } 10 + 329 = 339$$

$$\text{Other ins. } 134 + 419 = 553$$

---

1931.31 Riosaltados, M.G., 18-9. 1931.  
At light at night.

Pantelma 1 on screen.

Gryllodes 1 on step.

$$\text{Certs. } 2 + 339 = 341$$

$$\text{Other ins. } 8 + 553 = 561$$

1931. 32. Rescalados, M. G., Brazil.

IX. 27. 1931. In dry scrub to west of  
settlement.

Bit Mulla : Beaten from tree  
foliage.

Hicronetes in dry sandy soil all  
seen.

Ornatotettix same.

Paradichroplus in ground in  
thicket places - all seen taken.

Urophylloides juv. in same.

Others all except from low scrub.

Orth.  $12 + 341 = 353$

Other ins.  $25 + 561 = 586$

---

1931. 33. Rescalados, M. G., Brazil.

IX. 29. 1931. Attracted to light  
at night.

Paulinia, Nemobius, Pachylus  
Amurogryllus. Tridactylus + Tenantes.

Orth.  $20 + 353 = 373$

Other ins.  $38 + 586 = 624$

---





Africa

1934





1934 Africa.

1934.

#1. Maji ya Moto, <sup>Moto River,</sup> betw. Rongai and Lake Hannington, Kenya. Elev.

June 16, 1934. At light at night.

Orth. 1 - 1

Elev. (ann.) 3250 feet.

Other insects 21

*Pseudoderopeltis* running on ground.

Locality arroyo in lava with hot springs. Surface soil red.

1934. 2. So. End of Lake Baringo, <sup>near mouth of Moto River</sup> Kenya. Elev. <sup>less than 1000 meters</sup> 2600 ft (chart) <sup>feet.</sup> Prob. about 3000 feet.

June 17, 1934. (ann.) and volcanic

soil with low acacia, patches of short grass and scattered, park-like higher acacia and other trees. Very little evident insect life.

For *Chotolpa* brought from old Nyemi, who intended to use them for fish bait. Also had dragon-fly nymphs.

*Aerotylus* numerous, vary.

*Sphingonotus* few, very vary.

2 species of dragon fly - one common.

Orth. 15 + 1 = 16

Other ins. 8 + 21 = 29



1934.3 Same as 1934.1

June 18, 1934. Day time.

$$\text{Orth. } 0 + 16 = 16$$

$$\text{Other insect. } 4 + 29 = 33$$

1934.4 Same as 1934.1 but  
June 18, 1934 at light at  
night.

1 *Tarachodes* + 1 immat. *Cedip.*

$$\text{Orth. } 2 + 16 = 18$$

$$\text{Other ins. } 337 + 33 = 370$$

1934.5 Same as 1934.1 but

June 19, 1934. On surface  
of old lake beds and remnants  
of old lava flows covered  
in most places by lake  
beds.

Butte ex *Hyem*  
*Cedipoda* common. native.

*Psatrimargus* only one seen.

*Chrotogonus* ♀♀ particularly  
in evidence on rougher  
terrain. ♂♂ fewer and  
far more wary. ♀♀ heavy  
and but quick in turning  
about.

• *Tamta* ? few and very  
active. On bare lava  
sections.

$$\text{Orth. } 39 + 18 = 57$$

$$\text{Other insects } 2 + 370 = 372$$

1934. 6. Same as 1934. 2 but  
June 19, 1934.

All at night attracted to  
light.

Tarachodes - salpax

$$\text{Orth } 3 + 57 = 60$$

$$\text{Other ins. } 134 + 372 = 506$$

1934. 7 Same as 1934. 2 but  
June 20, 1934

1 ~~Thericles~~ hopped on table  
at lunch. Caudal fem. rich

$$\text{Orth } 1 + 60 = 61 \text{ translucent pea green.}$$

$$\text{Other ins. } = 506$$

1934. 8 Same as 1934. 2 but

June 20, 1934 At light at night.

$$\text{Orth. } 0 + 61 = 61$$

$$\text{Other ins. } 1 + 506 = 507$$

1934. 9 Kijak section of the  
Kihuyu Escarpment, 8200  
feet (aneroid), Kenya.

Above Kijak station. June 22, 1934  
In mountain forest of various



trees, usually but medium  
height and dense, stands  
of natu. bamboo and open  
moss-like swales of tussock  
grass, nettle and other low  
bush. Cold and damp.

Clonistria from <sup>tall</sup> grass.

Forficula and two species  
of Urididae all swept from  
grass. (one Paracrimma?)

$$\text{Urth. } 5 + 61 = 66$$

$$\text{Other ins. } 27 + 507 = 534$$

---

1934. 10 As 1934. 9 but at night  
at light. Same date.

$$\text{Urth } 0 + 66 = 66$$

$$\text{Other ins. } 21 + 534 = 555$$

---

1934.11 as 1934.9 but June 23,  
1934.

Paricinema, Catantops  
(short winged), <sup>Humana</sup> and Pyrgomorphid  
in grass and low succulent  
ground cover in woods like  
areas. This material all taken  
by hand. The Pyrgomorphid  
is exceedingly active, the  
Catantops much less so. <sup>Humana</sup>

Very active - scarce - partial  
to fall grass. <sup>5</sup> Reside in grass.

$$\text{Orth } 44 + 66 = 110$$

$$\text{Other ins } 20 + 555 = 575$$

Humat. Flatt'd  
running in  
trail

1934.12 as 1934.9  
but June 24, 1934 and  
solely in grassy glades between patches  
of forest. The ground cover  
is chiefly a coarse tussock  
grass, a sedge, a tall nettle,  
a rather low thistle and  
other low plants. Little life  
evident except when sun shines.



Short winged Cutantops very common, active but easy to catch, in variety of corn.

Rather broad Pyrgomorphid <sup>with pale median line</sup> fair numbers, very active, particularly males, equally wide in habitat preference.

Green pyrgomorphid few, same habitat as other sp.

Zucampus like species active, numerous, in all low corn.

Male particularly elusive.

Paracrinania few, but one ♀ seen and taken.

Almonia scarce, all seen taken, very active.

Caloptenid-species local, in short grass, females ovipositing.

Xypha

Conocéphalus few adults - <sup>thousands</sup> of nymphs.

Nemobius but one seen and taken, in very short grass.

$$\text{Orth. } 114 + 107 = 221$$

$$\text{Other ins } 42 + 575 = 617$$

1934.13 as 1934.9 but June  
25, 1934.

Female Gratidia from tall  
grass. Short-winged Cotantops  
from situation usual for  
species - see previous notes.

Female Parameena from low  
ground corn grass.

$$\text{Orth. } 5 + 221 = 226$$

$$\text{Other ins. } 0 + 617 = 617$$

1934.14 As 1934.13 but at  
light at night.

$$\text{Orth. } 0 + 226 = 226$$

$$\text{Other ins. } 11 + 617 = 628$$

1934.15 as 1934.14 but June  
26, 1934. At light at night - except  
 $\text{Orth. } 5 + 226 = 231$  as before  
Other ins.  $31 + 628 = 659$

Trifurcula - juv.

Blattid in tent

at night

Cnecophalus in wet  
grass in afternoon

1934.16 as 1934.  
13 but June 28, 1934.  
At light at night.

$$\text{Orth. } 0 + 231 = 231$$

$$\text{Other ins. } 15 + 659 = 674$$



1934. 17 as 1934. 13 but June 29, 1934.  
Ectobius running in dark tent.

$$\text{Orth. } 1 + 231 = 232$$

$$\text{Other ins. } 0 + 674 = 674$$

---

1934. 18 As 1934. 16 but June 29, 1934  
At light, at night

Trifurcatus in tent, running on  
walls or ground cloth.

$$\text{Orth. } 3 + 232 = 235$$

$$\text{Other ins. } 26 + 674 = 700$$

---

1934. 19 As 1934. 16 but June 30, 1934.  
At light at night.

Immature blattid in tent.

$$\text{Orth. } 1 + 235 = 236$$

$$\text{Other ins. } 28 + 700 = 728$$

---

1934. 20 As 1934. 19 but July 1, 1934  
At light at night.

Ectobius africanus 2 ♂, one in main  
tent, one in work tent

$$\text{Orth. } 2 + 236 = 238$$

$$\text{Other ins. } 18 + 728 = 746$$

---

1934. 21. Bito. Nanyuki and  
the upper fringes Njoro River, Kenya.  
W. of Mt. Kenya. Elev. 6000 feet.  
July 5, 1934

In very short, closely grazed  
sun-cured bromegrass with scattered  
trees and limited patches of

sprawling  
very low mimosa and acacia bushes.

Putheis 1 single ♂ crawling on ground into low acacia clump.

Phymatodes. 2 ♂, 1 ♀, in heaver, but still short grass near house, the male when handled emitted fluid from thoracic glands with distinct, bubbling noise.

Cledaloes, 3 ♀ scattered singly on the dry areas, flies reasonably well and fair distance. Pictodictya type few, in short grass, <sup>near taller bushes,</sup> not very active.

Odontomeloe few adults (2 ♂ 1 ♀).

immatures numerous, in short grass, active.

Acrida, chiefly immature, <sup>ad. ♀ but one,</sup> in short grass, active, free flying.

Encephalopus 1 ♂ only - in short grass.

Calidomantis 1 ♀ swept from low clump of grass - acacia.

Heteropternis (?) very common in short grass, moderately active. Few immat.

Rodania (?) Notice color phases.

Numerous and very active, particularly males.

Proxica (?), with short-winged females, much less numerous in same situation. ♂♂ very



difficult to capture.

Cosmopolysa not common, some  
immature.

$$\text{Orth. } 88 + 238 = 326$$

$$\text{Other ins. } 4 + 746 = 750$$

---

1934.22 As 1934.21, same  
date, but at light at night.

$$\text{Orth. } 0 + 326 = 326$$

$$\text{Other ins. } 6 + 750 = 756$$

---

1934.23 As 1934.22 but July  
5, 1934. At light at night

$$\text{Orth. } 0 + 326 = 326$$

$$\text{Other ins. } 9 + 756 = 765$$

---

1934.24 As 1934.21 but July 6, 1934.

Work done in short <sup>sun cooled down</sup> grass in open  
areas among thorn bush - thorn trees.  
Wind high, strong flying from long  
long distances.

Acrida few, largely immature -  
adults flying freely and for  
moderate distances.

Rodusia (?) very common and  
generally distributed, generally  
in very short grass. Active but  
easily captured.

Adontomelus few, in open areas of  
short grass.

Aiolopus not common in short grass,  
very active and flying freely - notice  
color phases.

Cedaleus local but in fair numbers,  
females flying for long distances,  
much like Xanthippus, very wary.  
Males much more readily approached.

Cosmorhiza very few seen, one  
taken, in open or bare ground.

Cedipoda (?) one taken, open ground.

Heteropternis (?) abundant, generally  
distributed.

Pycnodictya (?). Not common, no  
males seen. Wary, flying well but  
firing more readily than Cedaleus.  
Females apparently ovipositing in  
ground on edge of tangle clumps.  
Note color phases.

Smooth, short-winged Acridid. Appar-  
ently partial to patches of low acacia  
but easily frightened out. Acts like our  
Aiolopus but more easily secured.  
Sexual species?

Sphodromus not common, all  
seen except 1 ♀ taken. Latter sex  
rather inactive, males much more  
active.



Phymatulus occasional, usually  
in slightly longer, green grass.  
Odor unpleasant when handled.  
Cnecophalus 1 ♀ in short grass.

$$\text{Cuth. } 100 + 326 = 426$$

$$\text{Other inv. } 9 + 765 = 774$$

---

1934.25 As 1934.21 but July  
7, 1934.

All material taken along the  
edge of a wet area of tall grass,  
some ~~was~~ in distinct wet ground,  
others just away from this in  
the adjoining dry stretches.

Tettigids common on wet areas,  
taken largely by sweeping.

Bluronia (?) taken both in wet  
and adjacent dry areas, common,  
active. Several species?

Acolopus. Very common along the  
border of wet areas, very active but  
not difficult to capture. Often  
hiding among grass roots, even  
in wet areas.

~~The~~ Cosmorthopsa few on the border  
land strip.

Acropternis (?) Common as Acropternis,  
often hiding among grass roots.

Gastromargus numerous in wet  
areas chiefly, but going into adjacent  
dry sections. Females very clumsy,  
short fliers, easily captured, very  
different from Alidaleus in their  
actions. Males somewhat more active  
but still relatively slow moving.

Edentomachus (?) few, 2 males taken.

Brilliant green pygmymorphid very  
local & rather scarce, extensive  
search resulting in the capture  
of the small series presumed.

In wet areas but not of standing  
water, a fair jumper but not  
difficult to catch.

Euthymia - immature only,  
one other seen only - in same  
habitat as pygmymorphid.

Short-winged Acridid - scarce  
in wet but not flooded area,  
climber.

Perithous 1 ♂ in hole in dead  
tree!

Uranthus 1 ♀ beaten from tall  
grass in wet area.



Cyphostirides <sup>1 ♀ juv.</sup> Beatus as Oleanthus.  
Butter, etc. all beaten swept  
from wet areas, of short and  
long grass.

$$\text{Orth. } 147 + 426 = 573$$

$$\text{Other ins. } 66 + 774 = 840$$

---

1934. 26 As 1934. 25 but at  
light at night in room.

Calidamantis 1 ♂.

Eurygrypha 1 ♂ 575

$$\text{Orth. } 2 + \cancel{573} = \cancel{575}$$

$$\text{Other ins. } 70 + 840 = 910$$

---

1934. 27 Along upper Guaso Nyiro  
River, 14 m. W. of Nanyuki,  
Kenya. Elev. approx. 5500 feet.  
July 8, 1934.  
In grass and low bushes under  
groves of tall acacia and similar  
trees along the river. Environment  
much more heavily shaded than  
a few hundred yards in either  
direction away from the river.

Short-winged bluntnosed - few adults,  
no males seen. Epacramis a few.

Cremophala no numerous as adults.  
Tylopis but the 1 ♂ taken seen.

$$\text{Orth. } 11 + 575 = 586$$

$$\text{Other ins. } 6 + 910 = 916$$

1934.28 ~~Keep~~ Laikipia Plateau,  
inmed. W. of Guaso Nyiro  
River, 16 to 18 miles W. of Nanyuki,  
Kenya. Approx. elev. 6000 feet.  
July 8, 1934.

Rolling  
Alternating open grass land and  
<sup>open</sup> park-like thorn-bush country. Material  
collected in short grass in scattered  
thorn bush.

Juv. Calidomantis running on  
ground. <sup>Kopje</sup> Short-winged & acridid  
The two taken all seen, on ground,  
fair jumper. Single Psotrius argus  
seen, taken. Juv. only of Calliptamusid.  
Small Aeratyplus seen, one taken.  
Two species of smaller short-winged  
acridoid not common, the pair of  
one (both sexes) and 3 ♀♀ of the others  
all seen, active, on ground and in  
short grass. Heteropternis and Oedipoid  
(Heteropternis?) common, on ground.

$$\text{Orth. } 26 + 586 = 612$$

$$\text{Other ins. } 3 + 916 = 919$$

---

1934.29 Nanyuki, Kenya.

Elev. approx. 6000 feet. July 8, 1934.

Termites in flight at headlights  
of car. Present in thousands, shedding  
thin wings. Orth  $0 + 612 = 612$

$$\text{Other ins. } 22 + 919 = 941$$



1934.30 <sup>West side of Mt. Kenya above</sup> ~~to 1934.25 but~~ July

9, 1934 At light at night

Alt. 0 + 612 = 612

Alt. in. 10 + 941 = 951

Haromoni, Kenya.  
Elev. 7875 feet.

1934.31 As 1934.30 but July 10, 1934.

In the open grass land in front of camp, with scattered ~~tangles~~ clumps of low green bushes and small dried mud rhinoceros wallows.

Butterflies Maun's collecting - most bad.

Hemiptera, Diptera - Coleoptera sweeping.

Rodinia (?) scarce as adults - 2 ♂, 1 ♀, taken - all seen, immatures numerous. Chiefly on tall grass, perching lengthwise, but also on low tangles of grass.

Pyrgomorphid - males in fair numbers, females scarce, apparently in <sup>small</sup> local colonies, but on virtually any of the low cover. Males much more active than females.

Psathura argus few, two females - as seen - taken

Short-winged Catantops rare - one ♂ taken - 1 female escaped all seen.

Short-winged Empyridae - seen  
The ♂ - ♀ taken all <sup>adults</sup> seen. Small  
jwvs. taken.

Conoscephalus - very jwvs. numerous -  
near adults - few - no adults seen.

$$\text{Cuth. } 34 + 612 = 646$$

$$\text{Other ins. } 72 + 951 = 1023$$

---

1934.32 As 1934.30 but July 11, 1934.

At light at night in mess tent.

Calidamantis ♂ alighted on inside  
of fly.

$$\text{Cuth. } 1 + 646 = 647.$$

$$\text{Other ins. } 43 + 1023 = 1066$$

---

1934.33 As 1934.31

Same place, same environment,  
but much a little stirring. Berding  
July 12, 1934 + eye work.  
Two very jwvs. Clonaria - swept.

Heurionid - few adults, apparently  
jwvs. if this very numerous  
and in a number of instars.

pygmaeorhinus few - all males (2)  
seen taken - one ♀ escaped. Are  
jwvs. reared this?

Empyridae - some mature seen -  
Three instars in jwvs. taken. Very  
active, not common.

Metatropoda 1 ♂ jumping on  
long grass.



Encephalopus juvs. only, numerous.

Orth. 20 + 647 = 667

Other ins. 25 + 1066 = 1091

---

1934.34 As 1934.30 but  
July 12, 1934. At light at  
night. Whizzling.

Orth. 0 + 667 = 667

Other ins. 21 + 1091 = 1112

---

1934.35<sup>25</sup> As 1934.30 but July  
12, 1934.

In heavy mtn. forest at sunlight  
holes in foliage of shoulder-  
high dense woody undergrowth.  
Immature phaneroptids of two  
species.

34 green ♂♂, 1 brown ♀, 2 immatures.

Apterous cytharanthoid  
jumping on foliage, not active - all seen  
~~Orth.~~ Orth. 8 + 667 = 675 <sup>taken</sup>

Other ins. 24 + 1112 = 1136

---

1934.36 As 1934.30 but July  
12, 1934. At light at  
night. Unsettling -

1 Calidamantis on inside  
of mess tent - resting

Orth. 1 + 675 = 676

Other ins. 19 + 1136 = 1155

---

1934. 37 As 1934. 30 but July 13,  
1934. In grass land down the  
slope from the camp

Curonid - adults few, immatures  
quite numerous - all very active,  
adults difficult to secure but  
all seen taken.

Apterous pyrgomorphid few,  
all seen taken - 1♂, 2♀. Repre-  
senting green & brown color  
phases.

Euprepocnemid - juvs. in about  
three instars only.

Conocephalus 1 ♂ adult, all  
thus seen immature

$$\text{Orth. } 17 + 676 = 693$$

$$\text{Other ins. } 58 + 1155 = 1213$$

---

1934. 38 Nairobi, Kenya.

Elev. 5500 ft July 16, 1934.

In building hiding by day &  
attracted to lights at night.

Phymateus which were hopping on grass except

$$\text{Orth. } 2 + 693 = 695 \text{ at Klein's house}$$

$$\text{Other ins. } 30 + 1213 = 1243$$

---



1934.39 Gisi River, betw. Machakos  
and Sultan Hamud, Kenya. Elev.  
<sup>3375</sup>~~4550~~ feet. July 17, 1934.

At night with light.

Insect. *Adontomelus*.

& *Conorhaphus*.

} Both on stem  
of plant.

Orth.  $2 + 695 = 697$

Orth. no.  $0 + 1243 = 1243$

1934.40 Athi River Crossing,

16 m. N.N.E. of Kibwezi, Kenya.

Elev.  $\approx$  1400 feet. July 18, 1934.

*Hoplocorypha* ♀ walking on ground at night

*Acrostylus* (?) in almost bare <sup>in camp</sup> place

and just back from river  
bank - active.

*Arctosiphya* in sparse cover on  
same sand.

Mantis - attracted to light at  
night.

Ichneumonid. walking on sand at  
night.

Orth.  $76 + 697 = 703$

Orth. no.  $73 + 1243 = 1246$   
<sup>1256</sup>

1934. 41 Same as 1934. 40 but  
July 19, 1934.

In ~~area~~ one dry brittle dead brown  
brush, waist to shoulder high, with  
thick ground ~~litter~~ litter of broken dry  
twigs, usually less than  $\frac{1}{4}$ " in diameter,  
with a few bushes bearing medium to  
small green leaves, in open tree stand  
of baobab, ~~and~~ acacia, mimosa and  
other trees. A few small patches of  
dried coarse grass, heavily grazed,  
apparently by game. One of the  
most complete dry "stick" insect faunas  
I have seen, with strange dead leaf  
like hemipt., ant-like hemipt., etc.  
<sup>Most vegetation leafless.</sup>

♂-♀ Centolla-like mantid on ground,  
the ♀ running among dry twigs,  
the ♂ flitting on same.

juv. Heptocolid-like mantid swept from  
dry shrubbery.

♂-♀ + juv. Choraria walking (!) on  
ground or swept from dry bushes,  
often seen waving along. Numerous.  
Panga common on low ever, dead  
twigs, etc. - all juv. ? - a fair  
jumper, but not as active as  
Acridea.

Acridea adults few, all seen  
taken, juv. not so common as  
those of Panga. Adults very  
active - not easy to catch.



Oedalerus - fastumargus, all  
seen taken, among dead twigs  
+ litter on ground.

Humbe sp all seen, same notes  
as Oedalerus.

Long-winged Catantops Thistle  
3 taken - all seen - jumping in low  
dry leafless brush.

Short-winged Catantops - 2 seen -  
1 taken, same habitat as preceding.

Tamias juvs. - 2 sps? -  
ground with only twig litter.

Acrotyles? adult + juvs. in  
a more sandy spot near river  
+ camp.

Plagiops Plagiotripus 2 juvs. seen -  
1 taken - swept from green leaf  
brush, of which 2 leaves are  
in series. May be peculiar to  
it.

Thericles - like dead brown  
cinnabarid - juv. swept  
from twig littered ground.

Mesopsis 1 ♀ from tall tree  
cured yellow grass no more  
found.

from short winged Adontus. - 1 ♂  
about camp - from secured it.

Conocephalus 1 ♂, 1 ♀, swept from  
some dry leafless bushes.

Ceratodorus 3 ♀ swept as Conocephalus

$$\text{Orth. } 81 + 704 = 785$$

$$\text{Other ins } 28 + 1250 = 1278$$

---

1934. 42 As 1934. 40 but July 19, 1934  
At night, at light unless otherwise  
indicated.


Supella sp. 1 ♂ running on bark  
of a large acacia tree.

Calotampa 1 ♀ running on ground  
at camp.

Cutella 2 ♂ attracted to camp  
lights.

Walking sticks - all on bark of  
acacia trees (all single males,  
vibrating up & down) or largely  
paired on the twigs and foliage  
of the lower branches of the  
same tree. All from the one  
tree. Green ♀♀ with normal males.

Heterodid ♂ stridulating

on twig of a low bush   
(3 feet) very close to camp. Strid.  
a continuous wireless-like  
sputter, but not at all broken-



not disturbed by light.

Podoscutid fly lid - single female resting quietly on dead twig of same acacia tree - active when disturbed - not trace of male.

→  
Cush.  $41 + 785 = 826$

Cush. ins.  $37 + 1278 = 1315$

Strange wingless ♀ Eumastacid resting on the bark of the same acacia - like the Podoscutid marvellously protected.

1934.43 As 1934.40 but July 20, 1934. At light at night in camp, n, where specified, about camp with flash.

♂ Tivia attracted to light in camp.

♀ Hoplocorypha perched on tip of 10x inch low tuft of vegetation - not grass.

♂ Centulacid. attracted to light.

Phaenids - all on same acacia on its foliage where series were taken previous night.

Petasia brought to me by cook  
man after dark, probably in  
ground.

Juv. phaneropterid adult on  
tall cane along river - with flash.  
Juv. phaneropterid in low  
brush in camp - flash.

Heterodid ♀ - walking across heavy  
bare sand in camp.

Heperid butterfly asleep on low  
brush, picked off. Moth-like butterflies  
in tent at night.

$$\text{Orth. } 31 + 826 = 857$$

$$\text{Other ins. } 43 + 1315 = 1358$$

---

1934.44 As 1934.40 but July 21, 1934.

At light at night about camp.

Juv. Hoplosomys running among grassy <sup>litter</sup>  
Phasmids all on same acacia  
as was examined previously.

Brachytropes, <sup>juv.</sup> foraging actively  
on sand <sup>floor</sup> of mess shack.

Tridactylus to light at table.

Phaneropterid - same.

$$\text{Orth. } 17 + 857 = 874$$

$$\text{Other ins. } 14 + 1358 = 1372$$

---



1934. 45 As 1934. 40 but

July 22, 1934. Working in dry scrub,  
on bare sand, beating the few shrubs  
in the scrub still holding leaves and  
the scattered sheaves of sun-dried  
coarse grass, either entire or closely frayed.  
♀ Achlaenid mantid sitting motionless,  
longitudinally on a twig but a few  
inches from the ground.

Juv. Caridia swept from low bushes.

Juv. Pseudocrebota <sup>with green leaves.</sup> same data.

♂ Hoplocorypha flitting over  
ground litter.

Large ♂ phasmid swept from  
tall sun-cured grass.

Other phasmids swept from  
bush, both leafless and with  
sparse green leaves.

Plagioprius juv. swept as Caridia.

Juv. Curculionids swept from  
dry, leafless scrub.

Acronid a very few on ground  
litter.

Hemiteles ♀ in bare red soil  
road.

Acrotylus only on bare sand

immediate on the river shores -  
very active, juvs. most numerous.  
Chrotogonus almost entirely  
restricted to same environment,  
adults few, juvs. in great  
numbers and of all sizes. Active  
for a shabby species.

Calamus + Acrida, juvs. local and  
not common - in among  
twigs and sun-cured grass.

Tanita species. One adult  
only in twig ground litter -  
juvs. not common in same  
situation.

juv. pamphagids under dead  
rotten wood on ground.

Oxyrhopes juvs. - few, only  
in sun-cured coarse grass.

Catantops occasional in  
higher weeds near river and  
in dry scrub - strong and  
vigorous flyers as well  
as jumpers.

Euphemis 1 ♂, 2 ♀, beaten  
from low bushes with small  
green leaves.



Sphodromerus 1 ♀ on ground  
in twig tangle.

Ectatoderus beaten from  
twigs and bushes, probably  
all without foliage.

$$\text{Orth. } 73 + 874 = 947$$

$$\text{Other ins. } 20 + 1372 = 1392$$

1934. 46 Same as 1934. 45, same  
date, but at light at night, ~~unless~~  
unless otherwise stated.

$$\text{Orth. } 16 + 947 = \overset{963}{\cancel{948}}$$

$$\text{Other ins. } 10 + 1392 = 1402$$

Phasmids all on acacia tree  
previously examined

1934. 47 As 1934. 40 but July  
23, 1934. At night - all at  
light unless otherwise stated.  
Juv. Mantid - Phasmids on acacia tree  
by camp.

pyllorid juv. jumped on  
me at evening meal.  
♀ *Supella* dead of ground

$$\text{Orth. } 15 + 963 = 978$$

$$\text{Other ins. } 10 + 1402 = 1412$$

1934.48 As 1934.40 but July 24,  
1934. At light at night unless  
otherwise indicated.

Chrotzomys in same immediately  
about camp & along river, in afternoon.

Acrostylus ditto: very active.

Neurodid juv. in dead shell which  
was brought in.

Tridactylus, att. 15 light at base.

*C. candidula* on same along river.

Phasmids In acacia tree at camp

at right. Female in same position with open p.

With  $35 + 978 = 1013$  eggs

Other inv. 11 + 1412 = 1423

Prescribed and supplied  
Cotton middle  
by hand.

1934. 49 As 1934. 40 but

1934. 49 As 1934. 40 but  
July 25, 1934. Two types  
of country examined, first

The bare sand areas immediately along the river bank and, second, an open area of tall sun-cured coarse grass with scattered low bushes sparsely supplied with small oval leaves, the whole of the latter area surrounded by thorn-bush scrub.



Juv. harpagid mantis beaten from  
sitting sun-cured tall grass.

Juv. green mantid mantis beaten from  
small leaved bush. Trachodes ♂ running on ground  
Hoplerygma ♀ running on ground litter on ground  
sandy ♂ flitting along one same near by.  
has been represented by four

species, the largest, beaten from  
leafless, sitting gray bare stemmed  
bushes, the other three species  
taken from tall sun-cured yellow  
grass, all occurring in identical  
surroundings in an area not more  
than three hundred by two hundred  
feet.

Acrida scarce as adults in <sup>among</sup> grass,  
lighting on ground, both adults &  
juvs.

Mesopsis only in sun-cured sitting  
tall coarse grass, not very active,  
all taken beating, perching  
lengthwise on stems.

Machiridia in <sup>sitting</sup> sun-cured grass and  
low, similarly colored bare bushes,  
reasonably active. Oxyrhina in  
grass only.

Achilidia very active, difficult  
to catch in grass only.

Short diurnal in bare low bushes,

in grass area, very active.

Aerostylus on bare sand only.

Cherotrogmus ditto.

Autopus on ground in grass area.

Juv. pygmy-morphid in among bare  
brush stems only: from green leaved brush.

Adolfia (?) from green leaved brush.

Euschnuridea (?) beaten from brush  
with small green leaves and from  
bare twigs of leafless brush.

Adonturid ♀ swept from green leaved  
brush.

Yellow green phaneropod ditto  
from sun-cured grass.

Amorocorypha ditto.

Oecanthus ditto.

Conocephalus ditto.

pyllacrid from small leaved  
brush.

Ectatoderus in general sweeping  
of bare stemmed bushes and  
small green leaved brush.

Juv. Encoptid from mixed  
brush sweeping.

Orth.  $98 + 1014 = 1112$

Orth. mis  $77 + 1423 = 1500$

---



1934.50 As 1934.40 but July 25,  
1934. at night.

Brachytrapes<sup>the</sup>, running on sand  
about camp.

$$\text{Orth. } 2 + 1112 = 1114$$

$$\text{Other ins } 4 + 1500 = 1504$$

---

1934.51 As 1934.40 but July  
26, 1934 about camp in  
daytime.

Heterodid brought in by man.  
Calolampira on floor of Green's  
tent.

$$\text{Orth. } 2 + 1114 = 1116$$

$$\text{Other ins. } 5 + 1504 = 1509$$

---

1934.52 As 1934.40<sup>51</sup> but in  
evening attracted to lights  
or taken with flasher.

Phaenids<sup>assid</sup> on tree.  
pyllacids attracted to lights  
at table.

$$\text{Orth. } 12 + 1116 = \del{1118} 1128$$

$$\text{Other ins. } 8 + 1509 = 1517$$

---

1934. 53 As 1934. 40 but July  
27, 1934. Attracted to light  
at light.

Calotampa running on ground  
in meadow shelter.

Ligonia attracted to light.

Taraxodes. " " "

Small katydid. " " "

Phasmid on ground in meadow  
shelter.

Orth.  $8 + 1128 = 1136$

Other ins.  $6 + 1517 = 1523$

---

1934. 54 As 1934. 39 but  
July 28, 1934.

Swarming and beating in tall  
grass about camp site late  
in the afternoon.

Tecodera superstitiosa 1 ♀. except.  
Phasmida ditto.

No special notes on other  
species. Homoptera predom-  
inating, occurring adults  
requiring steady work.

Orth.  $162 + 1136 = 1298$

Other ins.  $7 + 1523 = 1530$

---



1934.55 As 1934.54 but July  
29, 1934 Environment identical,  
simply continued work the next  
morning. (No use of formalin  
this poss. fl.)  
Pharmids - from 8 & alone repres. by three  
species.

Juv. Mantids repr. 3 genera, one  
prob. Agrionopsis

Cicadas 1 ♀, appar. africanus.

1 juv. Cymatodid only seen - Taken.

Memorid exceedingly active and  
difficult to capture.

Cutantops much less active and  
Provia the easiest of all,  
most abundant.

Three species of Conorhaphus  
represented, the brownish one  
far the commonest.

Oedallus on ground under grass,  
only one seen.

Oecanthus beaten.

Phaneropterids beaten.

Almyate conorhaphids very  
scarce, all seen taken.

Orth. 162 + 1298 = 1460

Other ins. - 28 + 1530 = 1558

---

1934.56 Athi River Station, 20 miles  
from Nairobi, Kenya. Elev. 4949 feet.

July 29, 1934. Beating in  
tall grass, in part grazed,  
in a grove of Tall, <sup>pale</sup> green barked  
acacias. Juv. black mantids.

Juv. ♀ Hoplerythra. Two species  
of phasmids, 1 ♂ of one, 5 ♂♂ of  
other, several females.

Blurred, very active; also short-  
winged acridid. Catantops

few. Numbe, all on ground,  
all seen taken. Patanga ♂  
made one long flight and then  
becoming entangled in the base  
of grass clump was captured.

Amorocorypha few, ♂ - ♀ taken.

Ectatoderus  
Orth.  $39 + 1460 = 1499$  beaten.  
Other ins.  $7 + 1558 = 1565$

---

1934.57 Kiboko, S.E. of Simba,  
Kenya.

July 28,  
1934. At light at night.

(H. T. G.)

Orth.  $2 + 1499 = 1501$

Other ins.  $3 + 1565 = 1568$



1934.58 Nairobi, Kenya. 5500 feet.  
Aug. 1, 1934. At light at  
night.

Alt.  $0 + 1501 = 1501$

Alt. vis.  $11 + 1568 = 1579$

---

1934.59 <sup>59</sup> 6 miles S.W. of  
Kakamega, Kenya.

Alt. 5200 Aug. 5, 1934. Beating  
and sweeping in rank grass  
and weeds <sup>(4-6')</sup> on hillside by  
camp.

Marisa ♀ beaten from weeds.  
Burchellia ? (serrate-margin) ad. + juv.  
ditto.

Juv. Oxyopsid mantid. ditto.

Tettigid ♂ + ♀. beaten from low  
down in dense grass.

Edentomela juv. in grass, low  
down.

Chironid - 2 species one long  
+ one short winged - in both weeds  
+ grass.

Morphacris 1 ♀ in low grass.

Juv. Acrostachys ground beating.

Short winged pyrgomorphid -

Juv. high up in weeds 4-  
6 feet high.

Cutaneoxys few, low down.

Euprepocnemid 1 only, low down, ground cover.

All tettigoniids from weeds, rather high.

Triphidion taken from weeds.

Neurobiid ditto, few adults.

Cush.  $73 + 1501 = 1574$

Other ins.  $60 + 1579 = 1639$

---

1934.60 As 1934.59 but at night at light, about tents.

Ectolius afric. ♂♂ on inside of mess tent.

Miomantis ♂♂ (without femoral spots) on inside of mess tent.

Acridium sp. in my tent.

Eurygaster, Horatrophagid. - smaller phaneropt. on inside of mess tent.

Pryllus ad. ♀ + juv. ♀ on wall of my tent.

Cush.  $20 + 1574 = 1594$

Other ins.  $74 + 1659 = 1733$

---



1934. 61 As 1934. 59 but  
<sup>Aug.</sup> July 6, 1934. About camp,  
brought to me by men.

♂ *Catantops*

♀ *Patanga*

♀ *Cyrtacanthacris*

Cuth. 3 + 1594 = 1597

Other inv. 1733 + 0 = 1733

---

1934. 62. *Citula* (Kisubi),

Entebbe District, Uganda.

Aug. 7, 1934. Sweeping and  
beating in grass and weeds  
about camping site on shore of  
Lake Victoria.

Moths all at night at light in  
tents. Blattella with light at night  
in tents. *Tettig.* apparently low in count,  
nearer ground. Cuscus in  
quite tall grass, few adults.

Petasia in heavy weed

patches, low down, sluggish.

Cuth. 28 + 1597 = 1625

Other inv. 74 + 1733 = 1807

---

1934. 63 As 1934. 62 but Aug.

8, 1934. Beating and sweeping  
in open grass about camp,  
and along trail in second  
growth forest.

*Diaperidius erythroc.* ♀ + 2 juvs.  
swept from low foliage on trail side.

Juv. *Bruchellia* (?) ditto. 2 *Ceratis-  
pleia* from one bush on ditto.

♀ ♀ (one each) of 2 species of  
*Symphlocia* from same situations.

Tettigids all from ground sweeping  
in both grass land + 2nd  
growth forest.

Dark-brown flightless grasshopper  
on rather bare floor of 2nd growth  
forest. Beautiful long-winged green  
buckled brought me by cat.  
*Spathochernia* ♀ in grass.

1 Katydid beaten from foliage  
in opening in 2nd growth forest.

*Eucryptis* in grass in open, mainly  
juvs, many very small.

*Frythia* on ground in opening  
in second growth forest.

*Thamnoscinus* on foliage of  
2nd growth forest border wall.



Orth. 24 + 1625 = 1649  
Other ins. 59 + 1807 = 1866

---

1934.64 As 1934.62 but  
Aug. 8. 1934 at light at night.  
Orth. 0 + 1649 = 1649  
Other ins. 29 + 1866 = 1895

---

1934.65 As 1934.62 but  
Aug. 9. 1934 along shore of  
Lake Victoria. and about camp.  
Orth. 1 + 1649 = 1650  
Other ins. 15 + ~~1866~~  
1895 = 1910

---

1934.66 As 1934.62 but  
Aug. 9. 1934 Sweeping. beating  
about camp & along trail to  
forest.

*Acinotus* juv. in dense road  
side vegetation.

*Humilis* ditto.

*Spithamea* in grass.

*Eucypha* in grass.

*Acrida* sweeping in low  
cove.

*Thamnotus* in road side  
cove.

Arct. 30 + 1650 = 1680  
Other no. 28 + 1910 = 1938

---

1934.67 As 1934.62 but  
Aug. 9, 1934 and on trail side  
vegetation in premixed forest.  
Gyna floriosa rooting in foliage  
of low corn.

Physoptera on foliage (green) or  
running on dead log (brown),  
juvs. in various places.

Blattella swept from low tree  
foliage.

Chironomid on fr low corn or  
on ground.

Tettig. ds on ground or in very  
low corn.

Phaneropterids, <sup>+ conocephalids</sup> on green  
foliage.

Parasptera, Ceratomyx -  
strange fly-like on foliage  
of undergrowth.

Arct. 45 + 1680 = 1725  
Other no. 85 + 1938 = 2023

---



1934. 68 As 1934.62 but  
Aug. 9, 1934 at light at  
night.

Symphysa 2.4 in my tent.  
Gryllids ditto.

$$\text{Orth. } 4 + 1725 = 1729$$

$$\text{Other ins. } 2 + 2023 = 2025$$

---

1934. 69 As 1934.62 but Aug.  
10, 1934 at light at night.

$$\text{Orth. } 1 + 1729 = \cancel{1729} 1730$$

$$\text{Other ins. } 15 + 2025 = \cancel{2038} 2041$$

---

1934. 70 As 1934.62 but

Aug. 11, 1934. Unless otherwise  
noted along trail in second  
growth forest w adjacent elephant  
grass. Phanaeopt. flitting through  
elephant grass.

$$\text{Orth. } 1 + 1730 = 1731$$

$$\text{Other ins. } 19 + 2041 = 2060$$

---

1934.71 As 1934.62 but

Aug. 11, 1934 at night at

light.

~~fly~~ in my tent at night.

Cush.  $1 + 1731 = 1732$

Other no.  $13 + 2060 = 2073$

---

1934.72 As 1934.62 but Aug.

12, 1934. Sweeping & beating

in grass about camp, in second  
growth forest and in coarse  
grass 4 feet high, with bushes  
& weeds.

~~Diaperisotifus~~ only from blades of  
coarse grass.

Symphyla 1♂. ♀ beaten from low  
bushes & grasses in tall grass  
area.

Juv. Mantid & juv. phasmid  
ditto

Juv. black mantid from under  
growth in second growth forest.

Blattellid ♂-♀ in grasses & weeds.

Euprepomorphid ♂ in tall grass.

Eurygaster ♀ beaten from  
bush in grass area.

Conceps in thicket, less  
rank grass at camp.



Tettigids in flower of second growth  
~~for~~ forest.

Other phaneropterid from bush  
foliage in grass area.

Amnonypterus from tall grass  
only.

Ceisyntis from less rank grass  
at camp.

Juv. Oecanthus from grass.

$$\text{Orth. } 34 + 1732 = 1766$$

$$\text{Other ins. } 68 + 2073 = 2141$$

---

1934.73 As 1934.62 but Aug.  
12, 1934 at light at night.

Chrysopella in mess tent.  
Juv. Supella ditto.

$$\text{Orth. } 2 + 1766 = 1768$$

$$\text{Other ins. } 24 + 2141 = 2165$$

---

1934.74 As 1934.62 but Aug.  
14, 1934 at light at night.

Petasia in tent.

Paracimexia in mess tent.

$$\text{Orth. } 2 + 1768 = 1770$$

$$\text{Other ins. } 8 + 2165 = 2173$$

---

1934.75 As 1934.62 but  
August 15, 1934. In <sup>prim.</sup> forest and  
along trail in second growth  
forest. Using butterfly net  
only. Chiefly butterflies taken.  
Orth. 0 + 1770 = 1770  
Other ins. 80 + 2173 = 2253

---

1934.76 As 1934.62 but  
August 15, 1934 at light at  
night.  
Tettigids, gryllids, <sup>mantid, katydid</sup> and hymenoptera  
gammia and Oxyhalon in  
bento at night.  
Orth. 9 + 1770 = 1779  
Other ins. 1 + 2253 = 2254

---

1934.77 As 1934.62 but  
Aug. 16, 1934. Hymenopt. all  
on one acacia.  
Orth. 0 + 1779 = 1779  
Other ins. 28 + 2254 = 2272

---

1934.78 Butiaba, Lake Albert,  
Uganda. Elev. 2080 feet.  
Aug. 18, 1934. At light at night.  
Beetles only exc. 1 Gryllotalpa.  
Orth. 1 + 1779 = ~~1779~~ 1780.  
Other ins. 10 + 2272 = 2282



1934.79 As 1934.78 but Aug. 19,  
1934. Beating and sweeping  
in grass back from beach.

Rush grass - not at all salt,  
in some places with low weeds.

Phasmoda in fair numbers - all  
adults seen taken - all swept.

Mantids all seen taken - all swept.

Spathosternum common, very active  
and elusive.

Coryphæus common but adults  
not part. numerous.

Single Pterigid swept.

Empyrid scarce, very active,  
keeping near ground.

Platypterna but one seen, swept.  
has brilliant golden junction in life

Orth.  $47 + 1780 = 1827$

Orth. vis.  $18 + 2282 = 2300$

---

1934.80 As 1934.79 but beating  
and sweeping over strand vegetation  
along beach of Lake Abbot. Same  
date.

Latidorsa under bark in brush.

Salinthea beaten from legumin  
brush in beach sand.

Ancida me juv. traten from  
tall grass.

Calamus ditto.

Tenodera superstitiosa ditto.

Chrotogonus in nearly bare  
sand, not numerous.

Euprepomnoid ♂ + ♀. in  
tall grass about leguminous  
bush on beach.

Epaurania in grass.

Catantops " "

Taranta ♂, ♀ + juv. in beach trash.

Phasmod in grass.

Orth. 26 + 1827 = 1853

Other in. 23 + 2300 = 2323

---

1934.88 As 1934.79 but at light  
at night.

Brachytripes brought by  
Niomarchus numerous on

inside mess.  
glen this ditto. (Tarachina?)  
Other mounds (but one, in  
same position.

Syllacris resting on edge  
of mess tract.

Orth. 13 + 1853 = 1866

Other in. 20 + 2323 = 2343

---



1934.82 Kasenyi, ~~the~~ Lake  
Albert, Ituri Dist., Belg. Congo  
Elev. 2100 feet. Aug 21, 1934.

At night, attracted to light  
unless otherwise noted.

Miomantis at table.

Periplaneta in wall of toilet -  
many others.

Orth. 2 + 1866 = 1868.

Other ins. 5 + 2343 = 2348

---

1934.83 As 1934.82 but

August 22, 1934.

Swarming, beating and individual  
picking in grass in front of  
house between showers.

Leptomyia ♂ & ♀ all beaten from grass  
of but average length, numerous.  
Heurionid common in short grass,  
sometimes on the ground.

Justiniargus 1 ♂ + 1 juv. all seen,  
on ground in grass area.

Trilophidia common on ground  
in grassy area, not partic. active.

Acrotylus few in bare border of  
road, active.

Tanita ♂ & ♀, common in  
ground in grass area, not  
very active. All in brown  
phase except one green female.  
Chrostognus common near bare  
road, mostly immature.

Acrida a few, no adult females,  
in Tall grass.

Uchilidia numerous in the  
tallest grass, when jumping  
exceedingly fast and powerful,  
but often, in net, very quiet.

green phaneropterid - numerous  
in beating grass and weeds.

Conorhaphus abundant in  
grass.

Acridothera a single ♀ beaten  
from grass.

Orth. 111 + 1868 = 1979

Orth. no. 50 + 2348 = 2398

---

1934.84 As 1934.83 but

Aug. 23, 1934. Exactly the  
same environment in an  
overcast morning.

P. hemiphaea 1 ♂ swept



from grass. Tanita very common.  
Ochridia in fair numbers.  
Crematogaster single spec. on  
 bare ground. Gastrancistrus  
 1 ♀, 1 juv. in among grass  
 tufts. Single Euprepomoides  
 in grass. 1 ♂ Catactops ditto.  
 ♀ Syllus on ground. Thamnosci-  
rus 1 swept.

Orth. 51 + 1979 = 2030  
 Other ins. 9 + 2398 = 2407

---

1934.85 As 1934.82 but  
 Aug. 24, 1934 Collected by  
 native boys - no notes.

Orth. 36 + 2030 = 2066  
 Other ins. 75 + 2407 = 2482

---

1934.86 As 1934.82 but  
 Aug. 24, 1934 at night at lights  
 in house.

Peripl. amer. + Hemimys

Orth. 2 + 2066 = 2068  
 Other ins. 4 + 2482 = 2486

---

1934.87 As 1934.82 but  
Aug. 25, 1934. Along Drummer  
road within a mile of town,  
through maize fields, gourds  
and the farthest part through  
grass savanna. Beating, sweeping  
and picking along road side, except  
for some beating in very tall  
(5 ft) grass, which contained  
almost nothing.

Tettigids (2) swept from taren  
areas on roadside.

Acrida few in roadside weeds.

Tricophidia n. bare road, not  
common.

Blurred few in grass on roadside.

Tarisa common.

Blumbe<sup>(?)</sup> - note 2 color phases like  
Chortophaga - activities much like  
in latter. Gastrancus few  
in under stretches. Acrotylus  
on bare road, active.

Catantops but the 1 ♂ seen,  
very active, jumping into  
deep grass - not roadside.

Catantops 1 in deep grass  
only.



Anacardium 1 shot in all from  
ten feet up in tree - no net  
available - record useful - the  
species is a most powerful  
flier - always alighting up in trees.  
Trigmidium swept roadside.  
Centothorus 1 on floor of house.

$$\text{Orth. } 25 + 2068 = 2093$$
$$\text{Other ins. } 32 + 2486 = 2518$$

---

1934. 88 As 1934. 87 but taken  
by native boys - no notes.

$$\text{Orth. } 64 + 2093 = 2157$$
$$\text{Other ins. } 6 + 2518 = 2524$$

---

1934. 89 As 1934. 82 but  
Aug. 26, 1934. Beating, sweeping  
and picking from tall grass  
in more rolling country than  
previously examined.

No adults seen of the black-  
headed acidid represented  
by jros. Acridia quite  
numerous in a tall  
starchy grass with blackish

tops. Tettigids all taken  
by ground sweeping along  
a trail. Mimantids, juvs.  
Juliniinae, phasmods, Concephales  
all by beating. Acrostylus,  
- other Acridipodids on or near  
ground. Stenocratus 1♂, 2♀,  
all seen, in tall grass. Catantopus  
1♂, 1♀, all seen, in very tall  
grass, jumping about low  
down.

Orth. 84 + 2157 = 2241  
Orth. ins. 7 + 2524 = 2531

---

1934.90 As 1934.82 but  
Aug. 27, 1934. Beating and  
sweeping in short and but  
moderately long grass about  
height of knee.

Tendera superstitiosa 2 juvs.  
only - beaten from taller grass.  
♀ phasmodal ditto.

Tettigids from ground under  
very short grass.



Acronid in fair numbers.  
Large acronid 1 juv. only  
in grass.

Tanita very numerous in  
all types of grass.

Chintidia not particularly  
numerous here.

Acrotylus along road in short  
grass only.

Trolophidia few, ditto but  
in the grass itself!

Morphacris 1 ♀ only, swept.

Acrida frequent, most  
females immature.

Euprepocnemid juv. only in  
taller grass.

Easacryptus few, beaten from rather  
tall grass.

Oecanthus 1 ♀ beaten.

Small Scotocryptus Cryptopis Scotopis, ditto.  
1 ♀ heavy pygmaea beaten.

$$\text{Orth. } 72 + 2241 = 2313$$

$$\text{Other ins. } 36 + 2531 = 2567$$

---

1934. 91 As 1934. 82 but  
evening of Aug. 27, 1934 at  
light in house except as  
noted.

♂ Sphodromantis centralis-  
in wall of mess room - prob.  
1 ♂ known.

Mrimantis same place.

♀. Patanga - Aug. 28. in  
grassy sarama on bush.

Orth. 3 + 2313 = 2316

Other ins. 5 + 2067 = 2572

1934. 92 As 1934. 82 but in  
house at light evening of  
Aug. 28, 1934.

Amocoryllus ~~in~~ on floor, jumping.

Paracincema in bedroom.

Orth. 2 + 2316 = 2318

Other ins. 1 + 2572 = 2573

1934. 93 As 1934. 82 but  
Aug. 29, 1934. am.

Springid in house. Gyna running  
Butte from near. in house.  
Pseudocrypta from near



Orth. 3 + 2318 = 2321  
Not Orth. 2 + 2573 = 2575

Njiana Farm,  
1934. 94 { Region of Bunia, Ituri  
Wist., Belg. Congo. Elev. 3500 feet  
Aug. 29, 1934. (Bunia-Irumu)

Termites along road near  
coffee. Patanga flying up  
from road.

Orth. 3 + 2321 = 2323  
Other ins. 0 + 2575 = 2575

1934. 95 As 1934. 94, same date  
but at night at light in mess  
tent - very tent.

Orth. 2 + 2323 = 2325  
Other ins. 37 + 2575 = 2612

1934. 96 As 1934. 94 but  
Aug. 30, 1934. Beating and  
sweeping in shorter grass (12 to  
18 inches) immediately in  
front of camp.

Acrida few, very active.

Uromia common.

Phaenocarpa 2 spec. taken all  
seen.

Acromyza 2 taken all seen.

Epistaurus 1 spec. swept.

Homocoryphus 1 ♂ only.

Crematophorus 1 ♂ only taken

plus 1 ♀ lost all adults seen many juvs.

Megastotheca 2 juvs. all seen.

Thamnoscutus 1 juv. only.

$$\text{Orth. } 27 + 2325 = 2352$$

$$\text{Other ins. } 48 + 2612 = 2660$$

---

1934.97 As 1934.94 but Aug.

31, 1934. At light of meso tent in evening.

1 dytiscid,

1 ladybird, 2 Blattels, 2 mantids.

$$\text{Orth. } 6 + 2352 = 2358$$

$$\text{Other ins. } 9 + 2660 = 2669$$

---

1934.98 As 1934.94 but

not dated. Presented by

Capt. Geoffrey Catchpole.

$$\text{Orth. } 0 + 2358 = 2358$$

$$\text{Other ins. } 5 + 2669 = 2674$$

---



1934. 99 As 1934. 94 but  
by Aug. 31, 1934 at night  
at light.

♂ + ♀ Hapraetius <sup>men</sup> ~~test~~  
♂ Hyscologamia ditto.

♀ Pythodes in my Tent.

Orth. 4 + 2358 = 2362

Other vis. 33 + 2674 = 2707

---

1934. 100 As 1934. 94 but  
Sept. 1, 1934. Beating a  
sweeping in medium & long  
grass, and along road.

Aerida few in Calamus 2 juvs.

in tall grass only. Meropids  
floral, common: ~~for~~ Chro-  
gma only in bare road cuts,  
most immat. Oxyrhipid several,  
juvs. only in tall grass.

Aerotylus in road only, active.

Hetero? ditto.

Trilophidia "

Cosmorhiza " , very active.

juv. Euprosennemids in  
both types, very active, no

adults. Hemiorhynchus 78  
only, in medium grass.

Phaneroptera 1 only, in ditto.

Conorhynchus few adults,  
many juvs., general in both.

Megalotheca 1 juv. only, in

tall grass. Thamnoscutus

1 only, medium grass. 1 Phyllodes  
in my tent in all.

Orth.  $43 + 2362 = 2405$

Other ins  $28 + 2707 = 2735$

---

1934.101. As 1934.94 but  
Sept. 1, 1934 at light at night.  
Heperactis <sup>Synoploc.</sup> + mantids in  
moss + my tents.

Orth.  $8 + 2405 = 2413$

Other ins.  $23 + 2735 = 2758$

---

1934.102 Crossing of Epule  
River (Epule Pontoon), betw.  
Mambasa and Caongola,  
Kibale - Kivu Prov., Belg. Congo  
Elev. 2500 feet Sept. 21, 1934



At light at night at Camp  
Putnam, except two *Sphodromantis*  
which I saw taken at dusk  
while waiting for the ferry at  
the river.

$$\text{With. } 4 + 2413 = 2417$$
$$\text{Other vis. } 20 + 2758 = 2778$$

---

~~1934. 103 Camp 6 m. N. of  
Kasungu, Lake Albert, Belg.  
Congo. Caught Aug. 26, 1934 at night.  
*Reucophaea* ♀ kept alive  
in bottle for some days, from  
birth to the living young also.  
here listed~~

~~$$\text{With. } 20 + 2417 = 2437$$
$$\text{Other vis. } 0 + 2778 = 2778$$~~

---

1934. 104 Same as 1934. 102  
Sept. 3, 1934. In forest.

Butterflies, <sup>& bee</sup> at excreta.  
Ants on tree trunk & ground.

$$\text{With. } 0 + 2437 = 2437$$
$$\text{Other vis. } 9 + 2778 = 2787$$

---

1934. 105 Saidi, Drumer-Avatechi  
Road, 10 m W. of Epulu Ferry,  
Kibale-Muri district, Belg. Congo.  
Elev. 2800 feet. Sept. 3, 1934.  
At light at night at mess or  
in my tent.

*Tridactylus* on dinner Table.  
Orth. 2 + 2437 = 2439  
Other ins. 15 + 2787 = 2792

---

1934. 106 As 1934. 105  
but Sept. 4, 1934. Brought  
from natives as collected by G.V.  
(latter dept. 1 Epulu)  
Orth 10 + 2439 = ~~2449~~ 2449  
Other ins. ~~10~~ 2 + 2792 = ~~2802~~ 2804

---

~~1934. 105~~

1934. 107 As 1934. 105  
but at light at night Sept. 4,  
1934.

*Tridactylus* - fry them in my  
tent.

Orth. 2 + 2449 = 2451  
Other ins. 3 + 2804 = 2807

---

1934. 108 As 1934. 105 but  
Sept. 5, 1934. Brought from natives  
in Tabora while birding. Evening flight  
Orth. 11 + 2451 = 2462  
Other ins. 43 + 2807 = 2850



1934. 109 As 1934. 105  
but Sept. 6, 1934. Either  
brought from materials or picked  
up about quarters in day-time.

Orth. 3 + 2462 = 2465

Other ins. 12 + 2850 = 2862

Polyspilota var. (2) = Stenomolytes.

---

1934. 110 As 1934. 105  
but at light at night Sept. 6.

1934.

1 ♀ Weslatops at table light.

1 ♀ Pseud to dryer lantern

1 Blatid in my tent.

2 Mantids to table light.

9 species of Tettigoniids to  
table light, dryer light +

in H. T. G's tent  
Trid. Piptops in my tent

Orth. 16 + 2465 = 2481

Other ins. 37 + 2862 = 2899

---

1934. 111 As 1934. 105 but  
Sept. 7, 1934 at light at night.

Wescolomania at G. V's mess table.

Polyspilota in a bunch of bananas  
hanging under our ♀ roof.

Theopampa in my tent.

Tettigoniids all at dryer lights

Homocoryllus on wall of heads.  
in light of deer lantern.

fryllus + Scapsipedus in my  
tent.

Utah. 9 + 2481 = 2490

Utah no. 11 + 2899 = 2910

1934.112 As 1934.105 but Sept.  
8, 1934. Working in small clearings  
cut in to the forest and the marginal  
zone of the same areas.

Long-pron. tettigid usually on  
broad-leaved foliage. Short-pron.

tettigid on same but more  
usually on low ground cover.

Juv. Mantis on foliage.

Epistaurus on low foliage

1 Coptana ditto.

Euprepocnemis very active, jumping  
long distances, usually keeping  
low.

Stenacrostylus a Catantops (?) in  
foliage of medium height -  
active. Patanga one near tent  
in tall weeds.

All tettigonids except Cou-

cephalus on foliage, latter on  
grass /



1 Cucanthus 1 on foliage.

1 Nemobius on foliage.

$$\text{Orth. } 28 + 2490 = 2518$$

$$\text{Orth. ins. } 33 + 2910 = 2943$$

---

1934. 113 As 1934. 105 but  
Sept. 8, 1934 at light at  
night.

Psalis + Ephindoma at dinner  
table.

Phaneropterid ditto

Pseudophyllid "

Phyllus on wall of building.

Cyrtosipha (?) in my tent.

$$\text{Orth. } 7 + 2518 = 2525$$

$$\text{Orth. ins. } 50 + 2943 = 2993$$

---

1934. 114 As 1934. 105 but  
Sept. 9, 1934. On bushes while  
shooting along forest edge.

$$\text{Orth. } 1 + 2525 = 2526$$

$$\text{Orth. ins. } 3 + 2993 = 2997$$

---

1934. 115 As 1934. 114 but  
brought from natives

$$\text{Orth. } 0 + 2526 = 2526$$

$$\text{Orth. ins. } 7 + 2997 = 3004$$

1934-116 As 1934.114 but  
Sept. 9, 1934 at light at night.

All *Orth.* esp. *pyllus* at mess,  
*Oxyhalia* remaining in ground, also *littid*  
latter in my tent. *Thalys*

*Orth.* 5 + 2526 = 2531  
*Other ins.* 9 + 3004 = 3013

---

1934.117 As 1934.114 but  
Sept. 7-9, 1934. Taken by Baron  
& Blixen at camp about 2 hours  
away in forest.

✓ *Orth.* 2 + 2531 = 2533  
*Other ins.* 24 + 3013 = 3037

---

1934.118 As 1934.114 but  
Sept. 10, 1934. Bought from  
native children.

*Orth.* 0 + 2533 = 2533  
*Other ins.* 49 + 3037 = 3086

---

1934.119 As 1934.114 but  
Sept. 10, 1934. Beating, sweeping  
& picking along road margin  
of forest, examining vine mounds,  
fallen trunks, rice patches,  
etc.

*Medinophyllum* on bark of rotting  
log in tangled clearing.  
*Trachytetes* very few, along roadside  
on dry ground.



very diverse types very common  
in tangled clearing, on ground  
in low plant cover - even in  
low rice sprouts, general in  
that environment.

blurred - only in taller cover in  
forest edge.

Heteropternis in tangled clearing,  
not on ground.

Atractomorpha in heavy cover along  
forest edge.

Flightless green cyrtos, on foliage  
in same place.

Kivinia? (18) ditto.

Epistaurus, (1) "

Catantops - Hemirhynchus more  
frequent in detrit. in forest & fringe  
- in tangled clearing.

Phaenopternis on forest border  
foliage.

Orth. 81 + 2533 = 2614

Other ins. 32 + 3086 = 3118

---

1934.120 As 1934.114 but Sept.

10, 1934. Brought from natives,  
except one moth taken at  
night at light. (Cecropia - fyna)

Crab.  $2 + 2614 = 2616$

Other ins.  $15 + 3118 = 3133$

---

1934.121 As 1934.114 but  
Sept. 11, 1934. Brought from native  
boys or taken immediately at  
hut used as work shelter.

Crab.  $2 + 2616 = 2618$

Other ins.  $96 + 3133 = 3229$

---

1934.122 As 1934.114 but

Sept. 11, 1934 At light at night.

Centellid - Sigurpes at mess tent  
light on tent. Beautiful slender

Phaneropterid ditto. Eucropterid in  
my tent. Microcentrid brought in

Crab.  $5 + 2618 = 2623$

Other ins.  $27 + 3229 = 3256$

---

1934.123 As 1934.114 but

Sept. 12, 1934. Brought in by  
+ brought from natives.

3 species of cyrtocanthids,  
Hemigysphus, Periplaneta.

Crab.  $14 + 2623 = 2637$

Other ins.  $67 + 3256 = 3323$



1934. 124 As 1934. 114 but  
Sept. 12, 1934 at night at  
light.

2 ~~heliplateys~~ = 1 ♀ ~~Thalperus~~ (n? ~~Archidont~~) on mess  
table.

3 Amorphocelis resting on inside of  
mess fly. (2 species? - ventral  
patterns very diff.)  
Blattid ditto.

2 Pettigoniids ditto.

Scapsipodus in my tent - active.

~~The~~ Tridactylus on mess table very  
active.

Orth. 13 + 2637 = 2650

Uther ins. 37 + 3323 = 3360

---

1934. 125 As 1934. 114 but  
Sept. 13, 1934 tonight from  
natives, or caught in camp  
etc. as before then.

Theophrasta alongside of dinner  
lantern in morning.

Euprepocnemid in tangle of  
cleaving near forest.

Heliplateys in tent in AM.

Orth. 14 + 2650 = 2664

Uther ins. 67 + 3360 = 3427

---

1934. 126 As 1934. 114 but  
Sept. 13, 1934 at light at  
night.

~~Pter~~ Symphloe, Sigerpes - Amorpho-  
scelis in mass tent fly. Hypocolo-  
gania running on ground in  
same. Unusual gnatid in  
mass fly.

Orth.  $5 + 2664 = 2670$   
Other ins.  $32 + 3427 = 3459$

---

1934. 127 As 1934. 114 but  
Sept. 14, 1934, picked up in  
forest while bird hunting.  
Sphingid caught by boy.

Amorphoscelis should be 18426  
Edontomachus in low undergrowth.

Orth.  $3 + 2670 = 2673$   
Other ins.  $4 + 3459 = 3463$

---

1934. 128 As 1934. 114 but  
Sept. 14, 1934, brought from  
natives.

Orth.  $32 + \overset{2673}{\cancel{2670}} = 2705$   
Other ins.  $103 + 3463 = 3566$

---

1934. 128 Continued



1934. 128 Continued  
Same lot same date  
other data

$$\text{Orth. } 13 + 2105 = 2719$$

$$\text{Other ins. } 116 + 3566 = 3682$$

---

1934. 129 As 1934. 14 but Sept.  
14, 1934 at light at night.

$$\text{Orth. } 3 + 2719 = 2722$$

$$\text{Other ins. } 12 + 3682 = 3694$$

---

1934. 130 Ube, 5m. N. of  
Nepoko Ferry, Aonkuli-Niangara  
Road, Uele Dist., Belg. Congo.  
Elev. 2800 feet. Sept. 17,  
1934. Bought from natives  
unless otherwise indicated  
Range north at light at night.

$$\text{Orth. } 13 + 2722 = 2735$$

$$\text{Other ins } 78 + 3694 = \begin{matrix} 3697 \\ 3601 \end{matrix}$$

---

1934. 131 Same as 1934. 130  
but Sept 19, 1934. In tall grass  
Cyperoid - Polypodiata.

$$\text{Orth. } 2 + 2735 = 2737$$

$$\text{Other ins. } 0 + 3601 = 3601$$

---

1934.132 As 1934.130 Bought  
from natives Sept. 18-19 except  
moths, which were at light  
night of Sept. 18.

$$\text{Orth. } 2 + 2737 = 2939$$

$$\text{Other ins. } 42 + 3601 = 3643$$

---

1934.133 As 1934.130 Bought  
from natives Sept. 19, 1934  
except Symplegid - large ant.  
which were in my tent at  
night.

$$\text{Orth. } 2939 + 1 = 2940$$

$$\text{Other ins. } 12 + 3643 = 3655$$

---

1934.134 As 1934.130 but  
Sept. 20, 1934. Bought from  
natives exc. moths taken at light  
at night.

$$\text{Orth. } 0 + 2940 = 2940$$

$$\text{Other ins. } 18 + 3655 = 3667$$

---

1934.135 Bomokandi Ferry  
on Bomokandi River, near  
Rungu, Uele, Belg. Congo.

Sept. 21, 1934. Elev. 2350  
feet.

$$\text{Orth. } 0 + 2940 = 2940$$

$$\text{Other ins. } 6 + 3667 = 3673$$

---



1934. 136 Ekibondo, betw.  
Kringa + Mungu, Ueli, Belg.  
Congo. Sept. 22, 1934. Elev. 2650 feet.

Bought from natives or picked  
up immediately about camp.

$$\text{Orth. } 10 + 2940 = 2950$$
$$\text{Other ins. } 36 + 3673 = 3709$$

---

1934. 137 As 1934. 136 but

Sept. 23, 1934.

2 large bottles - acidid bought from  
natives. Others all at light at  
night.

$$\text{Orth. } 2 + 2950 = 2952$$

$$\text{Other ins. } 15 + 3709 = 3724$$

---

1934. 138 As 1934. 136 but

Sept. 24, 1934. Bought from  
natives, <sup>or picked up about with quantities</sup> unless otherwise  
indicated.

$$\text{Orth. } 4 + 2952 = 2956$$

$$\text{Other ins. } 18 + 3724 = 3742$$

---

1934. 139 As 1934. 136 but

Sept. 25, 1934. Beating,  
sweeping - picking along  
native trails among oil palm  
groves, tall grass, tangles  
about manure and also the

jungle edge of some tree  
clumps - work off of these  
trails almost impossible on  
account of the tall grass (5-8  
feet).

Diapraetrix swept from foliage  
Thysanoptera " " "

Mantid " " "

Tettigids in short grass & the  
ground of trail.

Blennid. in grass - usually  
shorter.

Spathostemma foliage trailing  
under low trees.

Arisida Trampled vines.

Amorocylus - as Spathostemma

Paracoptera - ditto

Amorocorypha lush grass.

Phaneroptera " "

Cuscuta vine Trampled

Utricularia lush grass.

Orth. 47 + 2956 = 3003

Other inv. 75 + 3742 = 3817

---



1934. 140 As 1934. 136 but  
Sept. 25, 1934. Brought from  
nations.

$$\text{Orth. } 2 + 3003 = 3005$$

$$\text{Other ins. } 8 + 3827 = 3835$$

---

1934. 141 As 1934. 136 but  
Sept. 25, 1934, at light at  
night

Heperanthes, Heperologamia  
& mantids at mess table.

Blattella in my tent.

$$\text{Orth. } 9 + 3005 = 3014$$

$$\text{Other ins. } 94 + 3825 = 3919$$

---

1934. 142 As 1934. 136  
but Sept. 26, 1934, brought from  
nations

$$\text{Orth. } 5 + 3014 = 3019$$

$$\text{Other ins. } 33 + 3919 = 3952$$

---

1934. 143 As 1934. 136  
also Sept. 26, 1934, but taken  
at light at night (all)

$$\text{Orth. } 12 + 3019 = 3031$$

$$\text{Other ins. } 68 + 3952 = 4020$$

---

1934. 144 As 1934. 136  
but Sept. 27, 1934 bought from  
natives.

Orth.  $14 + 3031 = 3045$

Other ins.  $115 + 4020 = 4135$

---

1934. 145 As 1934. 136 but  
Sept. 27, 1934 at light at night  
at maso Table.

Pyromantis on ground - then  
as above.

Orth.  $3 + 3045 = 3048$

Other ins.  $22 + 4135 = 4157$

---

1934. 146 As 1934. 136 but  
Sept. 28, 1934. Bought from  
natives.

Orth.  $116 + 3048 = 3164$

Other ins.  $303 + 4157 = 4460$

---

1934. 147 As 1934. 136 but Sept.  
29, 1934. Bought from natives.

Orth.  $214 + 3164 = 3378$

Other ins.  $332 + 4460 = 4792$

---



1934.148 As 1934.136 but  
Sept. 30, 1934 at light at  
night.

Anaplecta. fryllid & Sphodro-  
mantis

$$\text{Orth. } 3 + 3378 = 3381$$

$$\text{Other ins. } 2 + 4792 = 4794$$

---

1934.149 As 1934.136 but  
Sept. 30, 1934. Bought from  
natives.

$$\text{Orth. } 215 + 3381 = 3596$$

$$\text{Other ins. } 287 + 4794 = 5081$$

---

1934.150 As 1934.136 but  
Oct. 1, 1934. Bought from  
natives.

$$\text{Orth. } 403 + 3596 = 3999$$

$$\text{Other ins. } 314 + 5081 = 5395$$

---

1934.151 As 1934.136 but  
Oct. 1, 1934 at light at  
night.

$$\text{Orth. } 5 + 3999 = 4004$$

$$\text{Other ins. } 5 + 5395 = 5400$$

---

1934.152 As 1934.136 but

Oct. 3, 1934 at night at  
light.

Orth. 2 + 4004 = 4006

Other ins. 3 + 5370 = 5373

---

1934.153 As 1934.136 but

Oct. 4, 1934. *Remimurus*  
from 2 *Cricetomys* (nos.  
997-998) Both with ticks but  
former badly infested with  
same, latter not so much.

*Remimurus* generally  
distributed. (Not in  
alcohol)

Orth. 45 + 4006 = 4051

Other ins 0 + 5373 = 5373

---

1934.154 As 1934.136 but  
Oct. 3, 1934. Bought from  
natives.

Orth. 405 + 4051 = 4456

Other ins. 393 + 5373 = 5766

---



1934.155 As 1934.136  
but Sept. Oct. 5, 1934.  
Mantis at light at night.

$$\text{Orth. } 1 + 4456 = 4457$$
$$\text{Orth. inv. } 0 + 5766 = 5766$$

---

1934.156 As 1934.136 but  
Oct. 6, 1934. Three ~~Mantis~~  
from Crickets bought in  
same date.

$$\text{Orth. } 3 + 4457 = 4460$$
$$\text{Orth. inv. } 0 + 5766 = 5766$$

---

1934.157 Not S. but Ubangi,  
French Cong. Afr. Oct. 13, 1934.  
Elev. 1375 feet. Bought from  
natives.

$$\text{Orth. } 446 + 4460 = 4906$$
$$\text{Orth. inv. } 227 + 5766 = 5993$$

---

1934.158. Same loc. as  
1934.157 but Oct. 15,  
1934. Bought from  
natives.

$$\text{Orth } 56 + 4906 = 4962$$
$$\text{Orth. inv. } 365 + 5993 = 6358$$

1934.159 As 1934.157 but

Oct. 16 About house, except  
moths - mayflies taken at  
night.

Orth. 0 + 4962 = 4962

Other ins. 9 + 6358 = 6367

---

1934.160 As 1934.157 but

Oct. 16 Brought from natives.

Orth. 92 + 4962 = 5054

Other ins. 49 + 6367 = 6416

---

1934.161 As 1934.157 but

Oct. 17, 1934. At light at  
night. Spingid at mess table.  
Beetle & Thalpus on magnolia  
net of bed.

Orth. 1 + 5054 = 5055

Other ins. 2 + 6416 = 6418

---

1934.162 As 1934.157 but

Oct. 17, 1934. Brought from  
natives.

Orth. 40 + 5055 = 5095

Other ins. 117 + 6418 = 6535

---



1934.163 As 1934.157 but  
Oct. 18, 1934. Bought  
from natives.

$$\text{Orth. } 21 + 5095 = 5116$$

$$\text{Other no. } 2 + 6535 = 6537$$

1934.164 Nola, Sanga River,  
Niger Congo, French Eq. Africa  
Elev. 1300 feet. X. 24, 1934.

In low cane under an abandoned  
cacao plantation. <sup>Orth.</sup> All foliage only.  
near under house <sup>iranda - fly same</sup>  
Orth. 9 + 5116 = 5125

$$\text{Other no. } 2 + 6537 = 6539$$

Dorsal surface of Holoprusia  
abdomen vivid greenish  
yellow.

1934.165 As 1934.164 but  
Oct. 25, 1934. Bought  
from native exc. sphingid  
taken in my room.

$$\text{Orth. } 8 + 5125 = 5133$$

$$\text{Other no. } 1 + 6539 = 6540$$

1934.166 As 1934.164 but  
Oct. 27, 1934. Zonurus  
purchased from natives,  
Holmops a running on my  
mush table.

Orth 24 + 5733 = 5757  
Other vis. 0 + 6540 = 6540

---

1934.167 As 1934.164 but  
Oct. 27, 1934. Sweeping in tall  
grass along river bank and over  
wet Hunter grass along same.

Burchellia up in tall grass.

All <sup>earrings</sup> Acridids esp. Tettigids  
+ all Tettigoniids, as well as  
Eucyrtus in same. Tettigids ✓  
Large ant. like creagrass, light at in  
Orth. 55 + 5157 = 5212

Other vis. 33 + 6540 = 6573

---

1934.168 As 1934.164 but  
Oct. 28, 1934. Bought from natives

Orth. 69 + 5212 = 5281  
Other vis 19 + 6573 = 6592

---



1934. 169 As 1934. 164 but  
Oct. 28, 1934 at light at  
light in moss-shelter.

$$\text{Orth. } 6 + 5281 = 5287$$

$$\text{Other ins. } 14 + 6592 = 6606$$

---

1934. 170 As 1934. 164 but  
Oct. 29, 1934. Butterflies taken  
in forest by B. v. Blicsen & Visc.  
Rochefaucand.

$$\text{Orth. } 0 + 5287 = 5287$$

$$\text{Other ins. } 12 + 6606 = 6618$$

---

1934. 171 As 1934. 164 but  
Oct. 29, 1934. Bought from  
natives.

$$\text{Orth. } 550 + 5287 = 5837$$

$$\text{Other ins. } 16 + 6618 = 6634$$

---

1934. 172 As 1934. 164 but  
<sup>Oct.</sup> Nov. 30, 1934. Butterflies  
taken by B. v. Blicsen in the  
forest.

$$\text{Orth. } 0 + 5837 = 5837$$

$$\text{Other ins. } 37 + 6634 = 6671$$

---

1934.173 As 1934.164 but  
Oct. 30, 1934. Brought from  
native.

$$\text{Orth. } 185 + 5837 = 6022$$
$$\text{Orth. ins. } 4 + 6671 = 6675$$

---

1934.174 As 1934.164 but  
Oct. 30, 1934. Taken at light  
at night.

*Diaparsaphius* - nemobid at  
mess table light.

$$\text{Orth. } 6 + 6022 = 6028$$
$$\text{Orth. ins. } 20 + 6675 = \cancel{6695} \\ 6695$$

---

1934.175 As 1934.164 but  
Oct. 31, 1934. Butterflies  
taken in forest by Dulah.

$$\text{Orth. } 0 + 6028 = 6028$$
$$\text{Orth. ins. } 20 + 6695 = 6715$$

---

1934.176 As 1934.164 but  
Oct. 31, 1934. Taken by natives.

$$\text{Orth. } 86 + 6028 = 6114$$
$$\text{Orth. ins. } 3 + 6715 = 6718$$

---

1934.177 As 1934.164 but  
Oct. 31, 1934 at mess table light  
at night.

$$\text{Orth. } 3 + 6114 = 6117$$
$$\text{Orth. ins. } 9 + 6718 = 6727$$



1934. 178 As 1934. 164 but Nov.

1, 1934. Butterflies taken by  
Julah.

$$\text{Orth. } 0 + 6117 = 6117$$

$$\text{Other ins } 10 + 6727 = 6737$$

---

1934. 179 As 1934. 178

but at night at light.

Oxyhalon running on ground  
of mess shelter. All other orthopt.  
running on tables.

$$\text{Orth. } 9 + 6117 = 6118 \rightarrow 6127$$

$$\text{Other ins. } 32 + 6737 = 6769$$

---

1934. 180 As 1934. 178

but brought from native.

$$\text{Orth. } 62 + 6127 = 6189$$

$$\text{Other ins. } 11 + 6769 = 6780$$

---

1934. 181 As 1934. 178 but

Nov. 2, 1934. At light at  
light.

Polyspilota, Rhomboderella  
+ large biting insect at  
mess lights.

$$\text{Orth. } 3 + 6189 = 6192$$

$$\text{Other ins. } 1 + 6780 = 6781$$

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1934.182 As 1934.178 but  
Nov. 3, 1934. Taken while  
working in forest for birds.  
Accidied in foliage.

$$\text{Orth. } 1 + 6192 = 6193$$
$$\text{Other ins. } 1 + 6781 = 6782$$

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1934.183 As 1934.178 but  
Nov 2, 1934. Bought from  
natives.

$$\text{Orth } 339 + 6193 = 6532$$
$$\text{Other ins. } 28 + 6782 = 6810$$

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1934.184 As 1934.178 but  
Nov. 3, 1934. Taken at night  
at light of mess table.

$$\text{Orth. } 2 + 6532 = 6534$$
$$\text{Other ins. } 3 + 6810 = 6813$$

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1934.185 As 1934.178 but  
Nov. 4, 1934. Picked up about  
camp.

$$\text{Orth. } 2 + 6534 = 6536$$
$$\text{Other ins. } 1 + 6813 = 6814$$

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1934.186 As 1934.178 but  
Nov. 3, 1934. Bought from natives.

$$\text{Orth. } 70 + 6536 = 6606$$
$$\text{Other ins. } 17 + 6814 = 6831$$



1934. 187 As 1934. 178 but  
Nov. 5, 1934. Bought from  
natives.

$$\text{Orth. } 48 + 6606 = 6654$$
$$\text{Other no. } 17 + 6831 = 6848$$

1934. 188 As 1934. 178 but  
Nov. 4, 1934. At night at mess  
table lights.

$$\text{Orth. } 2 + 6654 = 6656$$
$$\text{Other no. } 13 + 6848 = 6861$$

1934. 189 Younggour<sup>u</sup>, 15 m. N.  
of Nola, Moyen Congo, French  
Equat. Africa. Elev. 2060  
feet. Nov. 7, 1934

Purchased from natives

$$\text{Orth. } 96 + 6656 = 6752$$
$$\text{Other no. } 18 + 6861 = 6879$$

1934. 190 As 1934. 189 but  
Nov. 8, 1934. Purchased  
from natives.

$$\text{Orth. } 108 + 6752 = 6860$$
$$\text{Other no. } 17 + 6879 = 6896$$

1934.191 Yambo, Cameroons.

2000 feet + Nov. 14, 1934.

Upright at light in hotel on  
walls.

Uth. 6 + 6860 = 6866

Uth. 4 + 6896 = 6900

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